

Rotary/lifting modules EHMB, electric

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Rotary/lifting modules EHMB, electric

Features

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At a glance

The rotary/lifting module EHMB combines rotary and linear motion in one compact unit. The rotation is always transferred through a toothed belt to a hollow shaft by an electric motor while the linear motion is generated either by a pneumatic cylinder DSBC or an

electric cylinder ESBF. Both movements act on the output flange, which is compatible with the semi-rotary drive DRQD, so that numerous grippers can be used. Cables and tubes can be easily routed

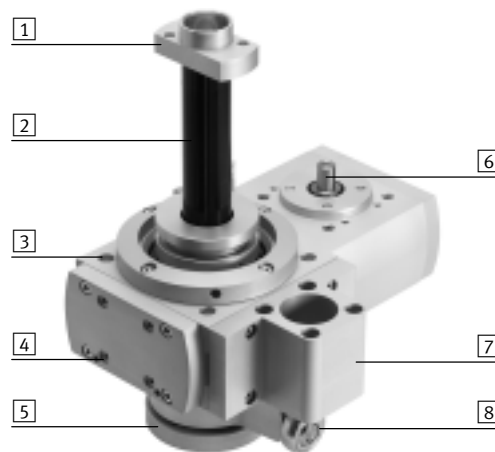
to the front unit of the rotary/lifting module through the large hollow shaft. The movement range can also be sensed via proximity sensors at the rotary unit and the cylinder.

Advantages :

- Large hollow axis
- Stable bearing arrangement
- Various motors and cylinders enable the performance to be adapted to the application

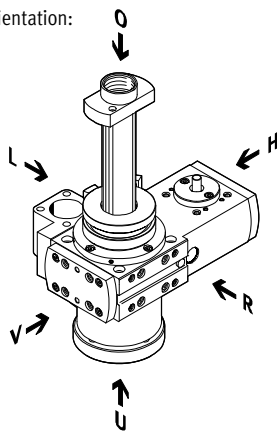
The technology in detail

- 1 Stop nut
- 2 Grooved shaft guide
- 3 Through-hole for mounting
- 4 Mounting thread/mounting hole
- 5 Output flange with centring hole and threaded hole for payload. Interface corresponds to that of the pneumatic semi-rotary drive DRQD
- 6 Drive shaft for rotation
- 7 Cylinder retainer
- 8 Rod eye and connecting bolt for linear motion



Flexible connection

Orientation:



O= top
U= underneath
R= right
V= front
L= left
H= rear

- The rotary/lifting module EHMB can be mounted on four sides:
 - On the right or left of the housing (L, R)
 - On the front cover (V)
 - Underneath the housing (U)
- The cylinder retainer can be mounted on three sides:
 - On the right or left of the housing (L, R)
 - On the front, after removing the front cover (V)
- The side where the cylinder retainer is mounted cannot be used for mounting the rotary/lifting module.
- Either a pneumatic standards-based cylinder DSBC or an electric cylinder ESBF can be attached to the cylinder holder. (These cylinders must be ordered separately).

-  - Note

Eccentric loads can destroy the bearing.
The front side (V) may be used only to attach a symmetrical applied load.

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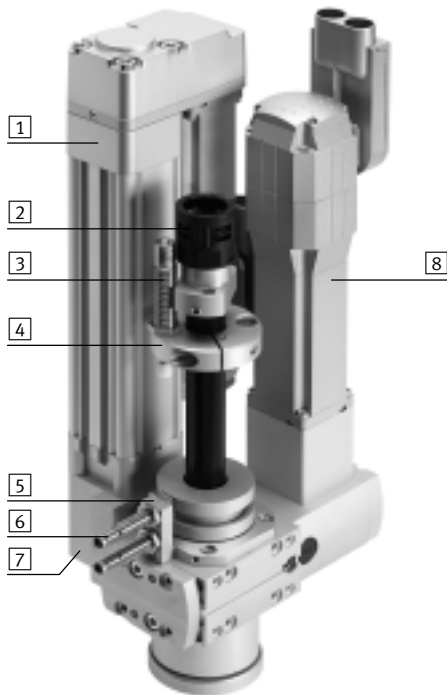
Key features

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Complete system comprising rotary/lifting module, motor and axial kit

Rotary/lifting module

→ page 6

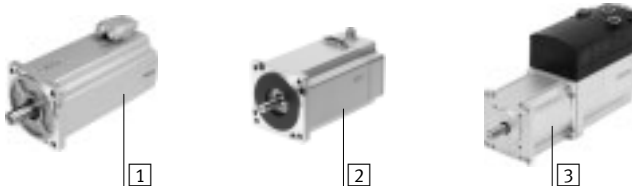


- 1 Electric cylinder ESBF, alternatively standards-based cylinder DSBC¹⁾
- 2 Protective conduit fitting¹⁾
- 3 Shock absorber¹⁾
- 4 Shock absorber retainer¹⁾
- 5 Sensor bracket
- 6 Proximity sensor SIEN¹⁾
- 7 Cylinder retainer
- 8 Motor for rotation¹⁾

1) These parts must be ordered separately as accessories.

Motors

→ page 17



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

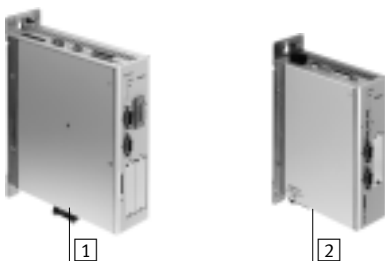


Note

A range of specially matched complete solutions is available for the rotary/lifting module EHMB and motors.

Motor controller

Technical data → Internet: motor controller



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

Motor mounting kit

→ page 17

Axial kit

Parallel kit



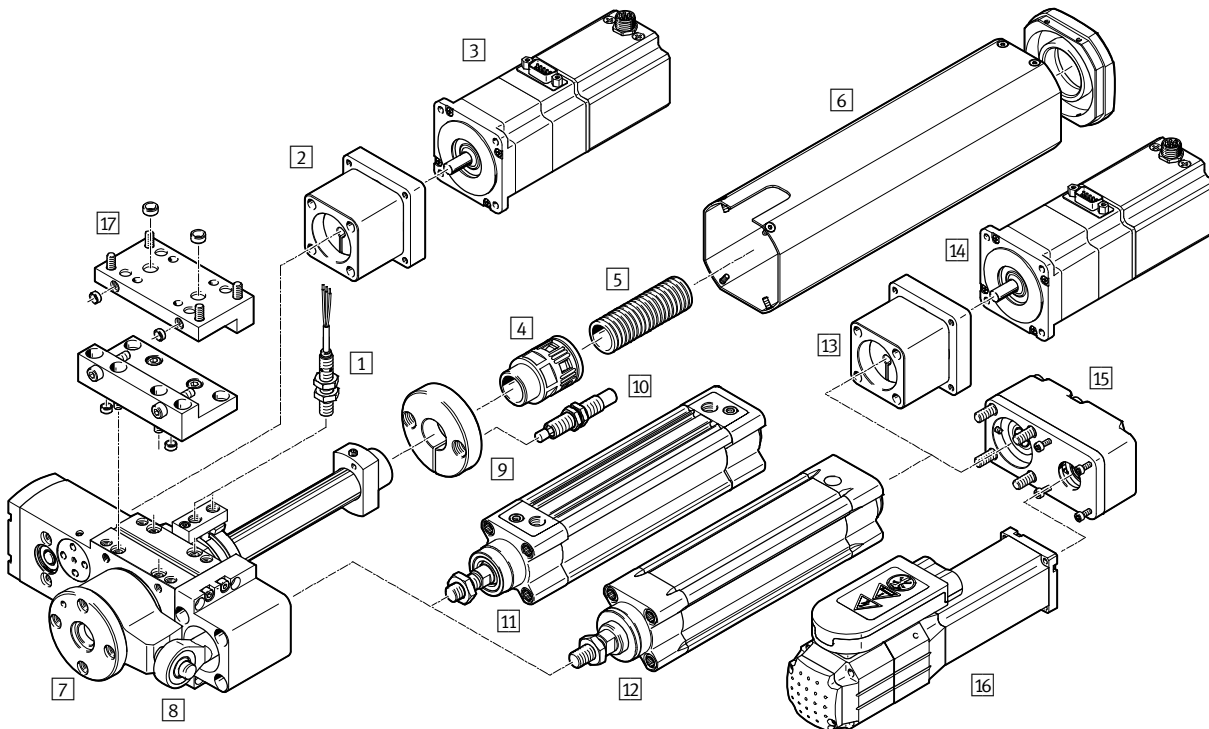
Complete kits are available for both parallel and axial motor mounting.

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Peripherals overview

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Peripherals overview

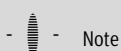


Accessories			
Type	Description		→ Page/Internet
1 Proximity sensor SIEN	- For use as a signal check and safety check - The holder for the proximity sensor SIEN is included in the scope of delivery of the rotary lifting module - Two cams → page 21, for sensing positions, are included in the scope of delivery		21
2 Axial kit EAMM-A	- For the rotation of the rotary/lifting module - For axial motor mounting (consisting of: coupling, coupling housing and motor flange)		17
3 Motor EMMS, EMME, EMCA	- For the rotation of the rotary/lifting module - 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		17
4 Protective conduit fitting EASA	For attaching the protective conduit		21
5 Protective conduit MKR	For protecting electrical cables and compressed air tubing		21
6 Cover EASC	- For protecting the grooved shaft guide and the trip cams - Cannot be used in conjunction with the parallel kit EAMM-U for size 20, 25		20
7 Rotary/lifting module EHMB	Combination of linear and rotary drive		6
8 Rod eye SGS	- Connecting piece between rotary/lifting module and standard/electric cylinder - Included in the scope of delivery of the rotary lifting module		20
9 Shock absorber retainer EAYH	Retainer for the shock absorber DYSW		20

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Peripherals overview and type codes

Accessories		
Type	Description	→ Page/Internet
10 Shock absorber DYSW	Hydraulic shock absorber with path-controlled flow control function	20
11 Standards-based cylinder DSBC	Pneumatic drive for the linear motion of the rotary/lifting module	16
12 Electric cylinders ESBF	Electric drive for the linear motion of the rotary/lifting module	16
13 Axial kit EAMM-A	- For the linear motion of the rotary/lifting module - For axial motor mounting - Alternative parallel kit 15 (consisting of: coupling, coupling housing and motor flange)	esbf
14 Motor EMMS, EMME, EMCA	- For the linear motion of the rotary/lifting module - 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	esbf
15 Parallel kit EAMM-U	- For the linear motion of the rotary/lifting module - For parallel motor mounting - Alternative axial kit 13 (consisting of: housing, clamping component, clamping sleeve, toothed belt pulley, toothed belt)	esbf
16 Motor EMMS, EMME, EMCA	- For the linear motion of the rotary/lifting module - 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	esbf
17 Adapter plate kit EHAM	- For attaching the EHMB to the axes EGC and DGC - Screws and centring sleeves are included in the scope of delivery of the adapter plate kit	20
– Adapters	For drive/drive connections	22
	For drive/gripper connections	gripper



Note

When laying electrical cables or compressed air tubing through the hollow shaft of the grooved guide, the

rotation angle of the EHMB must be limited to a rotation angle appropriate to the cables or

compressed air tubing. Endless rotation damages cables and tubes.

Type codes

		EHMB	–	25	–	100
Type						
EHMB	Rotary/lifting module					
Size						
Stroke						

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Technical data

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Size
20, 25, 32

Note

All values are based on a room temperature of 23 °C.



General technical data			
Size	20	25	32
Design	Electromechanical rotary/lifting module with toothed belt		
Drive pinion Ø	[mm] 6	8	12
Rotation angle	Infinite (→ page 5)		
Stroke, linear	[mm] 100, 200		
Repetition accuracy, rotary ¹⁾			
With servo motor EMMS-AS	[°] ±0.03		
With stepper motor EMMS-ST ²⁾	[°] ±0.08		
With integrated drive EMCA	[°] ±0.05		
Max. speed, linear			
With standards-based cylinder DSBC	[m/s] → page 10		
With electric cylinder ESBF	[m/s] 1.1		1.2
Positioning times, rotary	→ page 11		
Gear ratio	4.5:1	4:1	3:1
Position sensing	Via proximity sensor		
Mounting position	Any		

- 1) When the travel profile remains the same. The specifications apply only when the motor is directly mounted. If a gearbox is also installed, the repetition accuracy will be different.
2) Dependent on the encoder resolution.

Note

The connection between the drive and the EHMB for linear motion is not backlash-free.

Mechanical data			
Size	20	25	32
Max. driving torque	[Nm] 0.7	2.2	6.7
Max. output torque ¹⁾	[Nm] 3.15	8.8	20
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
Max. payload, horizontal	[kg] 3	5	8
Max. payload, vertical	[kg] 3	5	15 ³⁾
Toothed belt pitch	2	3	5

- 1) Output torque minus friction is dependent on speed.
2) At maximum rotational speed.
3) With symmetrical and non-eccentric arrangement.

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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 EHMB-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:

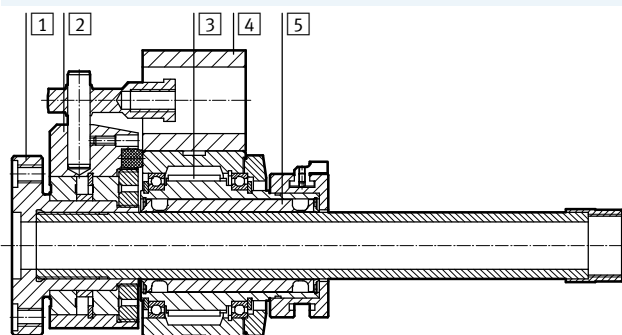
$$0.055 \text{ kgcm}^2 \times 45 \times 3^2 \times 4.5^2 = 451 \text{ kgcm}^2$$

Operating and environmental conditions				
Size		20	25	32
Ambient temperature	[°C]	-10 ... +60		
Noise level $\bar{L}_{pAeq}$ with cover	[dB (A)]	57	56	53
Noise level $\bar{L}_{pAeq}$ without cover	[dB (A)]	54	51	51

Weight [g]						
Size	20		25		32	
Stroke [mm]	100	200	100	200	100	200
Product weight						
Total	1716	1851	3347	3620	6112	6388
Moving load for linear motion						
Guide rod	501	681	1251	1651	1332	1732
Stop nut	25	25	53	53	53	53
Shock absorber retainer	64	64	99	99	99	99
Shock absorber	42	42	66	66	66	66
Rod eye	73	73	73	73	108	108
Moving mass of standards-based cylinder DSBC	200	290	200	290	365	525

Materials

Sectional view



Rotary/lifting module		
1	Flange	Anodised aluminium
2	Mounting	Anodised wrought aluminium alloy
3	Toothed belt	Polychloroprene with glass fibre
4	Holder	Anodised aluminium
5	Drive shaft	Steel
–	Drive shaft	High-alloy stainless steel
–	Note on materials	RoHS compliant
		Contains paint-wetting impairment substances

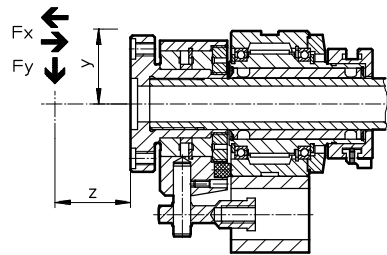
Rotary/lifting modules EHMB, electric

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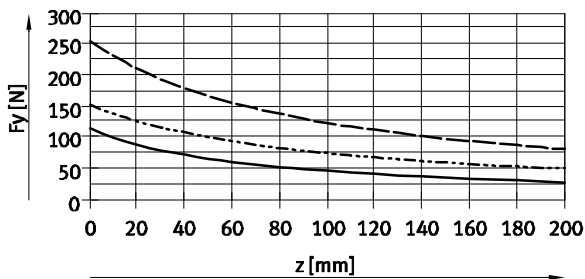
Maximum radial and axial force F_y/F_z at the output shaft as a function of distance x/z

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.

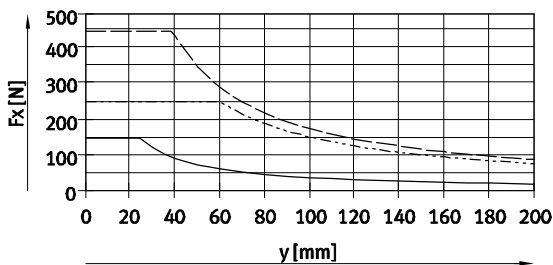


$$\frac{|F_x|}{F_{x_{max.}}} + \frac{|F_y|}{F_{y_{max.}}} + \frac{|F_z|}{F_{z_{max.}}} \leq 1$$

Max. radial force F_y , dynamic



Max. axial force F_x , dynamic, pushing and pulling



- EHMB-20
- - - EHMB-25
- · - EHMB-32

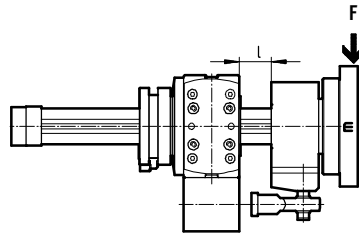
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Technical data

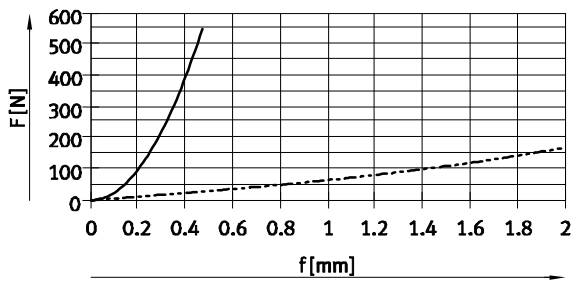
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Deflection f as a function of lateral stroke F and stroke l

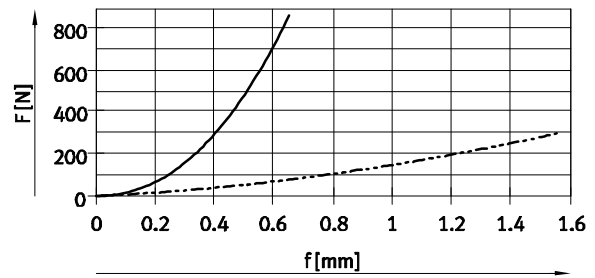
The following graphs show the deflection f of the rotary/lifting module under radial forces and with two strokes.



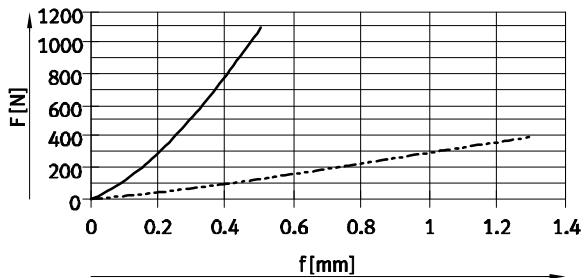
EHMB-20



EHMB-25



EHMB-32



— $l = 10$ mm
 - - - $l = 200$ mm

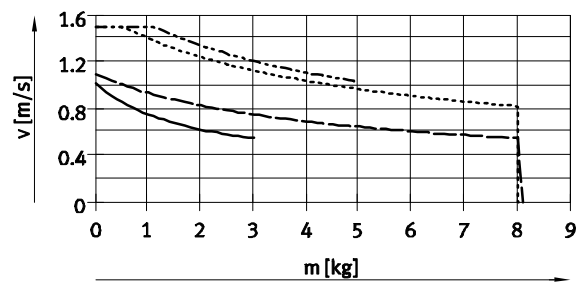
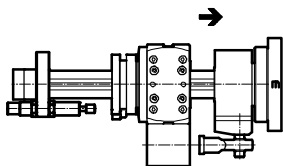
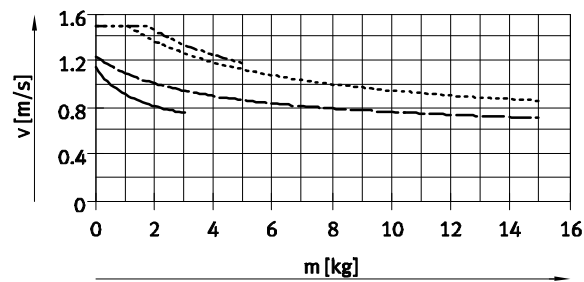
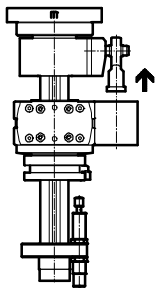
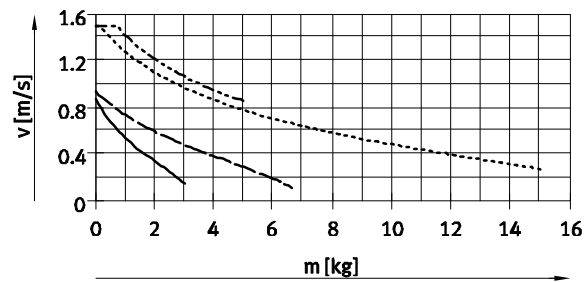
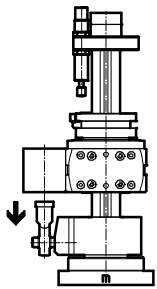
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Max. speed v as a function of the payload m in conjunction with the pneumatic standards-based cylinder DSBC

Mounting position:



- EHMB-20
- - - EHMB-25
- . - EHMB-32, with one shock absorber DYSW
- . . EHMB-32, with two shock absorbers DYSW

Rotary/lifting modules EHMB, electric

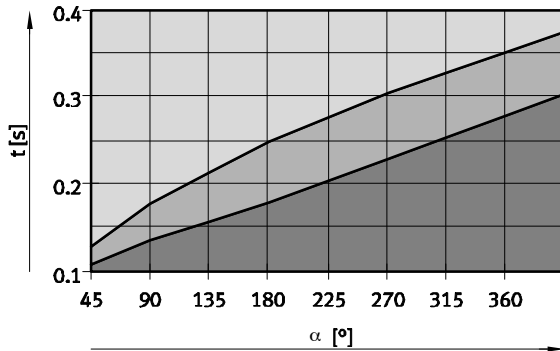
Technical data

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Positioning time t as a function of the rotation angle α

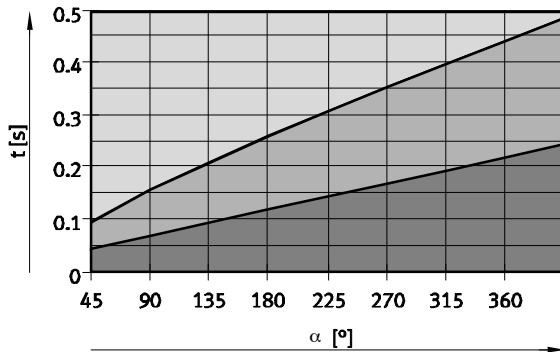
Size: 20

Example with servo motor EMMS-AS



- Permissible range
- The viability is dependent on the motor size and inertia of the load
- Non-implementable range

Example with stepper motor EMMS-ST



- Permissible range
- The viability is dependent on the motor size and inertia of the load
- Non-implementable range

 Note

The following tool is available for sizing:

Engineering software

PositioningDrives

→ www.festo.com

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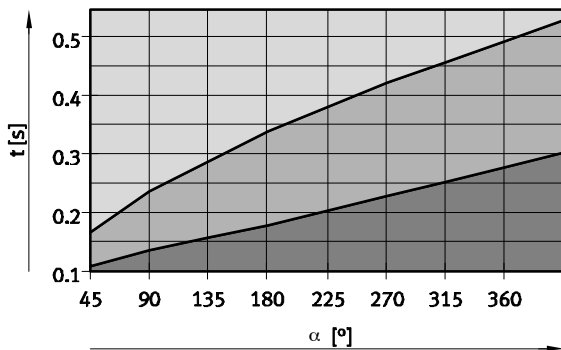
Technical data

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Positioning time t as a function of the rotation angle α

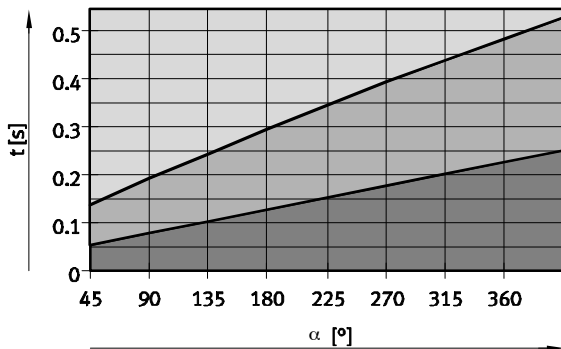
Size: 25

Example with servo motor EMMS-AS



- Permissible range
- The viability is dependent on the motor size and inertia of the load
- Non-implementable range

Example with stepper motor EMMS-ST



- Permissible range
- The viability is dependent on the motor size and inertia of the load
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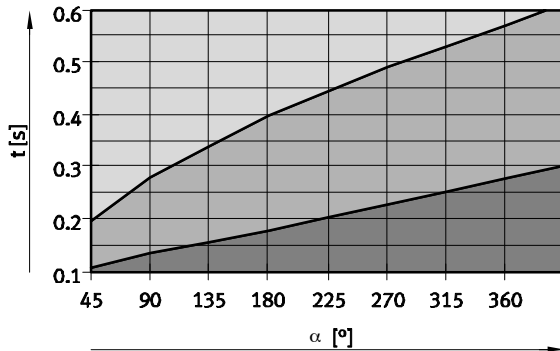
Technical data

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Positioning time t as a function of the rotation angle α

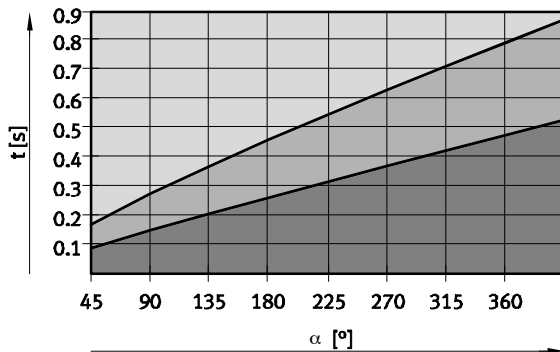
Size: 32

Example with servo motor EMMS-AS



- Permissible range
- The viability is dependent on the motor size and inertia of the load
- Non-implementable range

Example with stepper motor EMMS-ST



- Permissible range
- The viability is dependent on the motor size and inertia of the load
- Non-implementable range

Note

The following tool is available for sizing:

Engineering software

PositioningDrives

→ www.festo.com

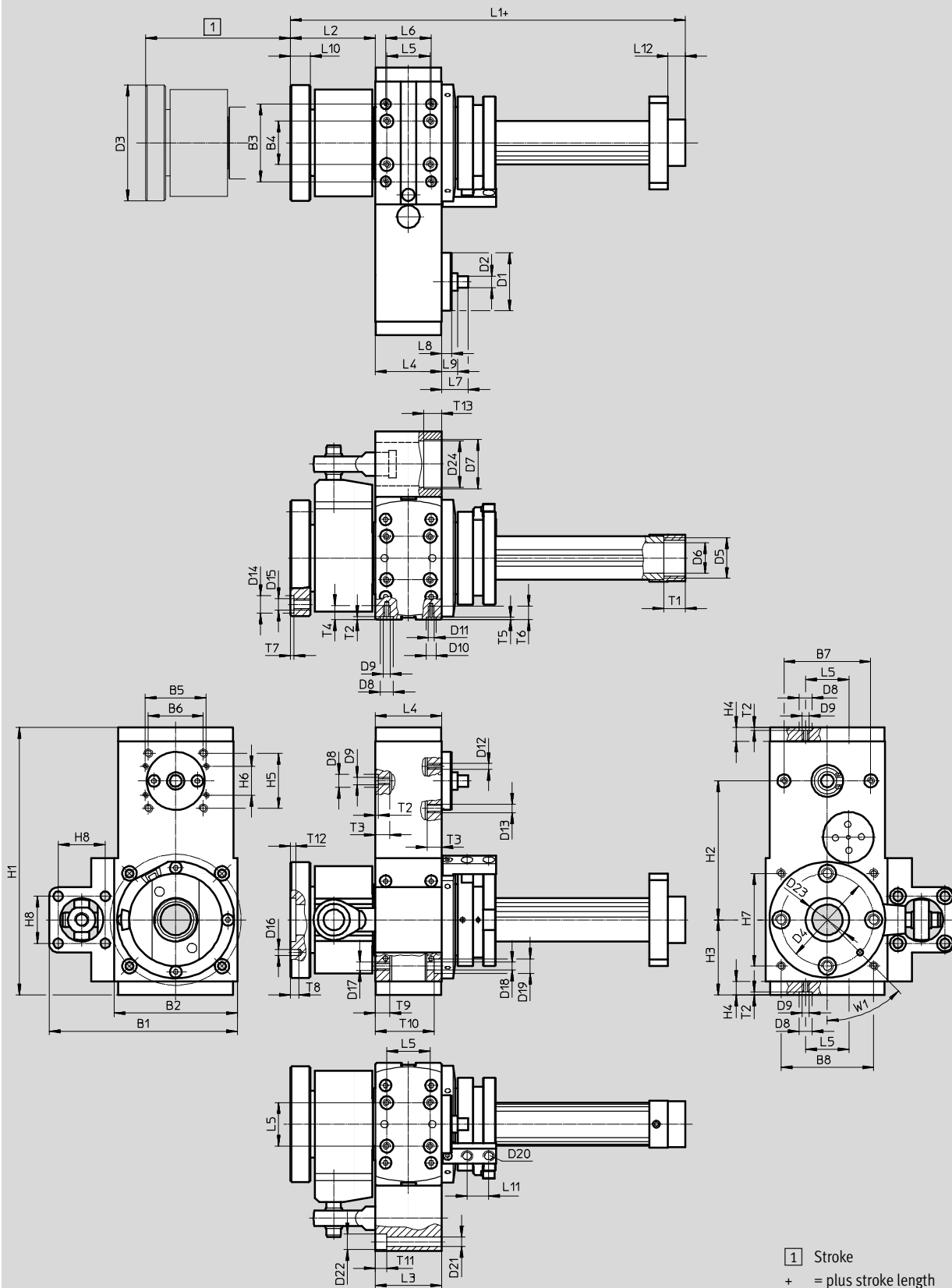
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Technical data

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Dimensions

Download CAD data → www.festo.com



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Size	B1 ±0.5	B2 ±0.2	B3 ¹⁾	B4 ¹⁾	B5 ±0.15	B6 ±0.15	B7 ¹⁾	B8 ±0.15	D1 Ø g7	D2 Ø H6	D3 Ø	D4 Ø ±0.05
20	110	65	54	34	32	32.5	30	52	32	6	58	45
25	130	85	53.5	30	42	38	60	64	40	8	80	64
32	169.5	115	70	40	62	56.5	80	88	60	12	80	64

Size	D5	D6 Ø	D7 Ø H8	D8 Ø H7	D9	D10 Ø H7	D11	D12	D13	D14 Ø H7	D15	D16 Ø H7	D17
20	Pg16	14	34/30 ²⁾	9	M5	7	M4	M3	M6	9	M6	4	M5
25	Pg21	21	34/30 ²⁾	9	M5	7	M4	M4	M6	12	M8	4	M6
32	Pg21	21	39/35 ²⁾	9	M5	–	M5	M5	M8	12	M8	4	M6

Size	D18 Ø	D19 Ø	D20	D21 Ø	D22 Ø	D23 Ø	D24 Ø	H1 ±0.5	H2 ±0.05	H3	H4	H5 ±0.15	H6 ±0.15
20	–	–	M8x1	6.6	11	19 ^{H8}	32	149	72	45	9.5	32.5	19
25	5.5	10	M8x1	6.6	11	30 ^{H7}	32	185	96	52	9.5	38	20
32	6.2	10	M8x1	6.6	11	30 ^{H7}	37	229.5	108	70.5	13	56.5	31

Size	H7 ±0.15	H8	L1	L2 Min.	L3 ±0.1	L4 ±0.1	L5 ¹⁾	L6 ¹⁾	L7	L8	L9	L10	L11 ±0.1	L12
20	44	32.5	147.5	40.5	52	40	30	30	15.8	5	7.8	9	15	12
25	64	32.5	173	58.6	46	46	30	31.5	18.35	7	–	14	15	12
32	88	38	183	61.4	60	60	40	47	23.3	6	–	14	15	12

Size	T1	T2 +0.1	T3	T4	T5 +0.2	T6	T7 +0.1	T8	T9	T10 ±0.2	T11	T12 ±0.5	T13 +0.4	W1
20	14	2.1	10	9	1.6	9.5	2.1	6	8.5	–	11	3	12.5	45°
25	15	2.1	10	9.6	1.6	9.5	2.7	6	10	40.8	8	4	12.5	45°
32	15	2.1	10	9	–	9.5	2.7	6	10	54.3	15	4	14.5	45°

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

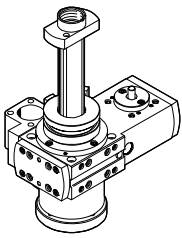
 Note

2) Using a centring ring, the diameter can be reduced (included in the scope of delivery of EHMB).

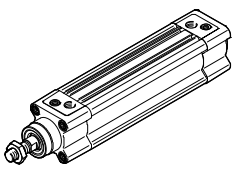
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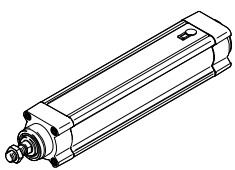
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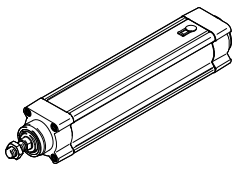
Ordering data				
	Size	Stroke [mm]	Part No.	Type
	20	100	1107096	EHMB-20-100
		200	1107097	EHMB-20-200
	25	100	1095933	EHMB-25-100
		200	1095934	EHMB-25-200
	32	100	1098558	EHMB-32-100
		200	1098559	EHMB-32-200

Cylinder connection for linear motion

Ordering data			
In conjunction with the pneumatic standards-based cylinder DSBC		Technical data → Internet: dsbc	
	For rotary/lifting module	Standards-based cylinder DSBC	
		Part No.	Type
	EHMB-20-100	1376426	DSBC-32-100-PPVA-N3
	EHMB-20-200	1376429	DSBC-32-200-PPVA-N3
	EHMB-25-100	1376426	DSBC-32-100-PPVA-N3
	EHMB-25-200	1376429	DSBC-32-200-PPVA-N3
	EHMB-32-100	1376660	DSBC-40-100-PPVA-N3
	EHMB-32-200	1376663	DSBC-40-200-PPVA-N3

In conjunction with electric cylinder ESBF			Technical data → Internet: esbf
	For rotary/lifting module	Electric cylinder ESBF ¹⁾	
		Part No.	Type
	EHMB-20-100	8022562	ESBF-BS-32-100-5P
	EHMB-20-200	2215384	ESBF-BS-32-200-5P
	EHMB-25-100	8022562	ESBF-BS-32-100-5P
	EHMB-25-200	2215384	ESBF-BS-32-200-5P
	EHMB-32-100	8022574	ESBF-BS-40-100-5P
	EHMB-32-200	2215385	ESBF-BS-40-200-5P

1) Ball screw with spindle pitch 5 mm, with reduced dynamic response

In conjunction with electric cylinder ESBF			Technical data → Internet: esbf
	For rotary/lifting module	Electric cylinder ESBF ²⁾	
		Part No.	Type
	EHMB-20-100	8022565	ESBF-BS-32-100-10P
	EHMB-20-200	8022566	ESBF-BS-32-200-10P
	EHMB-25-100	8022565	ESBF-BS-32-100-10P
	EHMB-25-200	8022566	ESBF-BS-32-200-10P
	EHMB-32-100	8022577	ESBF-BS-40-100-10P
	EHMB-32-200	8022578	ESBF-BS-40-200-10P

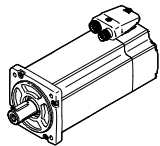
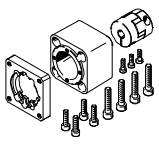
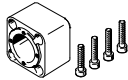
2) Ball screw with spindle pitch 10 mm

Rotary/lifting modules EHMB, electric

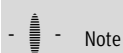
Accessories

FESTO

Motor mounting for rotary motion

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
EHMB-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
EHMB-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

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



Note

Note the maximum permissible driving torque of the EHMB. The motor current may need to be limited.

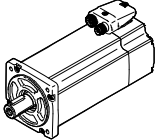
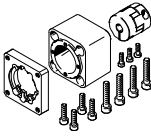
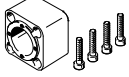
The following tool is available for sizing:
Engineering software
PositioningDrives
→ www.festo.com

Rotary/lifting modules EHMB, electric

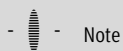
Accessories

FESTO

Motor mounting for rotary motion

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
EHMB-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.



Note

Note the maximum permissible driving torque of the EHMB. The motor current may need to be limited.

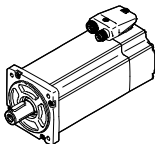
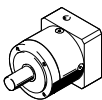
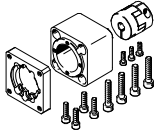
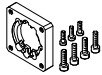
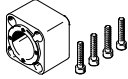
The following tool is available for sizing:
Engineering software
PositioningDrives
→ www.festo.com

Rotary/lifting modules EHMB, electric

Accessories

FESTO

Motor mounting for rotary drive

Permissible axis/motor combinations with axial kit – With gearbox						Technical data → Internet: eamm-a
Motor ¹⁾	Gear units	Axial kit	Axial kit comprises:			
			Motor flange	Coupling	Coupling housing	
						
Type	Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type	
EHMB-20						
With integrated drive						
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	
EHMB-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						
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	
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	
EHMB-32						
With servo motor						
EMMS-AS-55-...	EMGA-60-P-G...-SAS-55	560283 EAMM-A-D60-60G	550987 EAMF-A-64A/B-60G/H	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/H	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 EHMB. The motor current may need to be limited.

The following tool is available for sizing:
Engineering software
PositioningDrives
→ www.festo.com

Rotary/lifting modules EHMB, electric

Accessories

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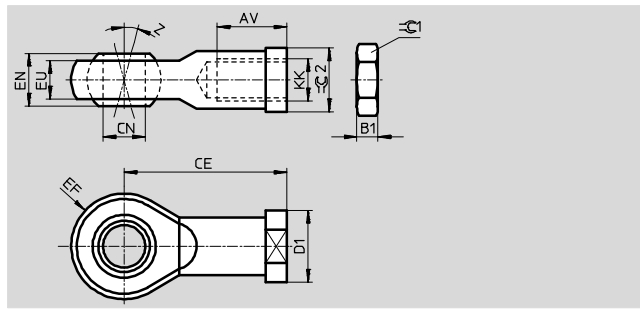
Rod eye SGS

Scope of delivery:

1 rod eye, 1 hex nut to DIN 439

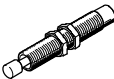
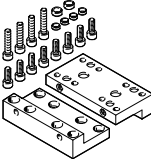
Materials:

Galvanised steel



Dimensions and ordering data								
For size	AV	B1	CE	CN Ø H7	D1 Ø	EF ±0.5	EN	EU
20, 25	20 -2	5	43	10	19	14	14	10.5
32	22 -2	6	50	12	22	16	16	12

For size	EU	KK	Z	⌀C1	⌀C2	Part No.	Type
20, 25	10.5	M10x1.25	13	17	17	9261	SGS-M10x1,25
32	12	M12x1.25	13	19	19	9262	SGS-M12x1,25

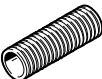
Ordering data						
	For size	Brief description	Weight [g]	Part No.	Type	PU ¹⁾
Cover EASC						
	20	• For protecting the grooved shaft guide • Cannot be used in conjunction with parallel kit EAMM-U	303	1099901	EASC-H1-20-100	1
			388	1099902	EASC-H1-20-200	
	25		385	1096387	EASC-H1-25-100	
			482	1096388	EASC-H1-25-200	
	32	For protecting the grooved shaft guide	383	1107235	EASC-H1-32-100	
			481	1107236	EASC-H1-32-200	
Shock absorber retainer EAYH						
	20	For attaching the shock absorbers	68	1153896	EAYH-H1-20	1
	25, 32		106	1153905	EAYH-H1-25	
Shock absorber DYSW						
	20	Progressive shock absorbers	42	548073	DYSW-8-14-Y1F	1
	25, 32		67	548074	DYSW-10-17-Y1F	
Adapter plate kit EHAM						
	20	For attaching the EHMB to the axes EGC and DGC	288	1132369	EHAM-H1-20-L2-80	1
	25		292	1132402	EHAM-H1-25-L2-80	
	32		668	1132529	EHAM-H1-32-L2-120	

1) Packaging unit

Rotary/lifting modules EHMB, electric

Accessories

FESTO

Ordering data						
	For size	Brief description	Weight [g]	Part No.	Type	PU ¹⁾
Protective conduit fitting EASA						
	20	For attaching the protective conduit	8	1157774	EASA-H1-20-PG16	1
	25, 32		12	1096549	EASA-H1-25-PG21	
Protective conduit MKR						
	20	For protecting lines and tubing	–	177566	MKR-16,5-PG-16	–
	25, 32		–	177567	MKR-23-PG-21	
Cam EAPS						
	20	For sensing positions	11	1234887	EAPS-H1-20-CK	2
	25, 32	(2 cams included in the scope of delivery)	11	1234888	EAPS-H1-25-CK	
Centring sleeve						
	– ²⁾	For centring loads and attachments	1	186717	ZBH-7	10
			1	150927	ZBH-9	
			1	189653	ZBH-12	

1) Packaging unit

2) → Dimensional drawing 14

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	



Note

The holder for the proximity sensor SIEN is included in the scope of delivery of the rotary/lifting module.

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,	2.5	541333	NEBU-M8G3-K-2.5-LE3
		3-wire	5	541334	NEBU-M8G3-K-5-LE3

Rotary/lifting modules EHMB, electric

Accessories

FESTO

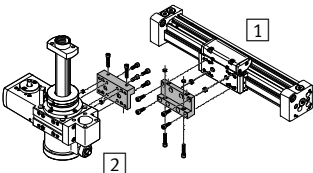
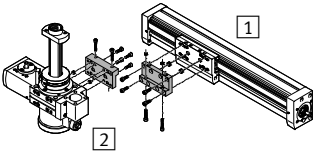
Adapter kit EHAM

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		
	Size	Size	CRC ¹⁾	Part No.	Type
DGC/EHMB	DGC	EHMB	EHAM		
	25	20	2	1132369	EHAM-H1-20-L2-80
	25	25		1132402	EHAM-H1-25-L2-80
	40	32		1132529	EHAM-H1-32-L2-120
EGC/EHMB	EGC	EHMB	EHAM		
	80	20	2	1132369	EHAM-H1-20-L2-80
	80	25		1132402	EHAM-H1-25-L2-80
	120	32		1132529	EHAM-H1-32-L2-120

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.