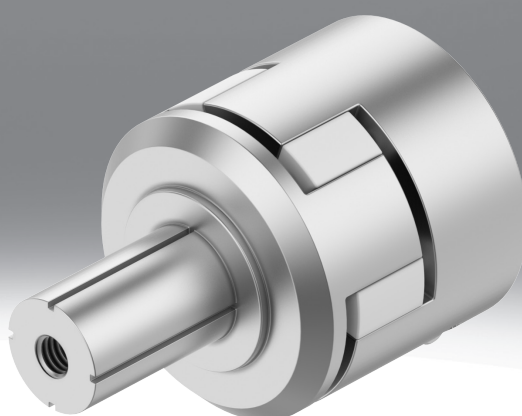


Mandrel coupling EAMD

FESTO



Characteristics

Coupling type



Annular gear coupling



Three-piece coupling with expanding mandrel and clamping hub, suitable for force-locked and backlash-free transmission of medium and high torques between electric motors and axes with a hollow shaft.

Type code

001	Series	
EAMD	Annular gear coupling with expanding mandrel	

002	Collar diameter [mm]	
16	16	
19	19	
21	21	
25	25	
28	28	
30	30	
32	32	
33	33	
42	42	
56	56	
67	67	

003	Collar length [mm]	
15	15	
22	22	
32	32	
40	40	
46	46	
48	48	
51	51	
54	54	
56	56	
62	62	
65	65	
82	82	
96	96	

004	Inside diameter 1	
5	5 mm	
6	6 mm	
6.35	6.35 mm	
8	8 mm	
9	9 mm	
10	10 mm	
11	11 mm	
12	12 mm	
14	14 mm	
16	16 mm	
18	18 mm	
19	19 mm	
20	20 mm	
22	22 mm	
24	24 mm	
25	25 mm	
32	32 mm	
40	40 mm	

005	Expanding mandrel diameter [mm]	
8	8	
10	10	
16	16	
23	23	
32	32	

006	Expanding mandrel length [mm]	
X10	10	
X12	12	
X20	20	
X32	32	
X25	25	
X27	27	

007	Hardness of elastomer insert	
	Standard	
U	64 Sh D	

Datasheet

General technical data – EAMD-16... 21

Size	16				19		21	
Nominal length	15							
Inside diameter 1	5 mm	6 mm	6.35 mm	8 mm	9 mm	10 mm	11 mm	12 mm
Mass moment of inertia	0.355 kgmm ²				0.445 kgmm ²		0.45 kgmm ²	
Transmittable torque	1.2 Nm	1.5 Nm	1.6 Nm	2 Nm				
Max. rotational speed	10,000 rpm							
Mounting position	optional							
Product weight	13 g	12.8 g		12 g	13.5 g	13 g	13.7 g	13.5 g

General technical data – EAMD-25... 30

Size	25							28	30						
Nominal length	22														
Inside diameter 1	6.35 mm	8 mm	9 mm	10 mm	11 mm	12 mm	14 mm	16 mm							
Mass moment of inertia	3.2 kgmm ²							3.5 kgmm ²	4 kgmm ²						
Transmittable torque	3.6 Nm	8 Nm	9 Nm												
Max. rotational speed	8,000 rpm														
Mounting position	optional														
Product weight	43.7 g	43.4 g	43.2 g	43.7 g	43.5 g	42.1 g	43 g	44.8 g							

General technical data – EAMD-32... 33

Size	32						33
Nominal length	32						22
Inside diameter 1	9 mm	10 mm	11 mm	12 mm	14 mm	16 mm	19 mm
Mass moment of inertia	14.5 kgmm ²						4.6 kgmm ²
Transmittable torque ¹⁾	12.5 Nm	16 Nm	12.5 Nm, 16 Nm	12.5 Nm	12.5 Nm, 16 Nm	12.5 Nm	9 Nm
Max. rotational speed	8,000 rpm						
Mounting position	optional						
Product weight	127 g	126 g		125 g	124 g	123 g	46.1 g

1) The values apply to: EAMD-...; EAMD-...-U

General technical data – EAMD-42

Size	42										
Nominal length	40									48	
Inside diameter 1	10 mm	11 mm	12 mm	14 mm	16 mm	18 mm	19 mm	20 mm	22 mm	16 mm	19 mm
Mass moment of inertia	39 kgmm ²	38 kgmm ² , 39 kgmm ²		39 kgmm ²	38 kgmm ² , 39 kgmm ²	39 kgmm ²	38 kgmm ² , 39 kgmm ²	39 kgmm ²		45 kgmm ²	
Transmittable torque ¹⁾	17 Nm	17 Nm, 21 Nm		21 Nm	17 Nm, 21 Nm	17 Nm	17 Nm, 21 Nm		17 Nm		
Max. rotational speed	6,000 rpm										
Mounting position	optional										
Product weight	199 g	198 g		196 g	194 g	192 g	190 g	189 g	186 g	217 g	212 g

1) The values apply to: EAMD-...; EAMD-...-U

General technical data – EAMD-56

Size	56												
Nominal length	46					46.5							
Inside diameter 1	16 mm	19 mm	20 mm	22 mm	24 mm	14 mm	18 mm	19 mm	20 mm	24 mm	25 mm	32 mm	
Mass moment of inertia	151 kgmm ²												
Transmittable torque ¹⁾	47 Nm	60 Nm	65 Nm	72 Nm	75 Nm	38 Nm	57 Nm	60 Nm				60 Nm, 75 Nm	60 Nm
Max. rotational speed	5,500 rpm												
Mounting position	optional												
Product weight	422 g	418 g	416 g	413 g	409 g	424 g	419 g	418 g	416 g	409 g	407 g	390 g	

1) The values apply to: EAMD-...; EAMD-...-U

Datasheet

General technical data – EAMD-56

Size	56					
Nominal length	54.5			56		62.5
Inside diameter 1	18 mm	19 mm	22 mm	25 mm	32 mm	20 mm
Mass moment of inertia	172 kgmm ²					192 kgmm ²
Transmittable torque	60 Nm			58 Nm	73 Nm	60 Nm
Max. rotational speed	5,500 rpm					
Mounting position	optional					
Product weight	466 g	464 g	457 g	459 g	435 g	507 g

General technical data – EAMD-67

Size	67												
Nominal length	51							65			82		96
Inside diameter 1	16 mm	19 mm	20 mm	22 mm	24 mm	25 mm	32 mm	25 mm	32 mm	40 mm	24 mm	25 mm	32 mm
Mass moment of inertia	374 kgmm ²							430 kgmm ²			831 kgmm ²		886 kgmm ²
Transmittable torque	93 Nm	113 Nm	120 Nm	133 Nm	143 Nm	150 Nm	192 Nm	115 Nm	145 Nm	200 Nm	143 Nm	150 Nm	145 Nm
Max. rotational speed	4,500 rpm												
Mounting position	optional												
Product weight	750 g	745 g	744 g	740 g	736 g	734 g	717 g	844 g	816 g	787 g	1,559 g	1,557 g	1,636 g

Operating and environmental conditions

Ambient temperature	-25 ... 60°C
Storage temperature	-25 ... 60°C
Relative air humidity	0 - 95%
LABS (PWIS) conformity	VDMA24364-B2-L
Note on materials	RoHS-compliant

Dimensions

Dimensions – EAMD-16/EAMD-19

[Download CAD data](#) www.festo.com

The technical drawing shows a side view and an end view of a Mandrel coupling. The side view includes dimensions D1, D2, D3, D4, L1, L2, and L3. Callout 1 points to the nominal length with axial offset compensation, and callout 2 points to the insertion depth. The end view shows the circular profile of the coupling.

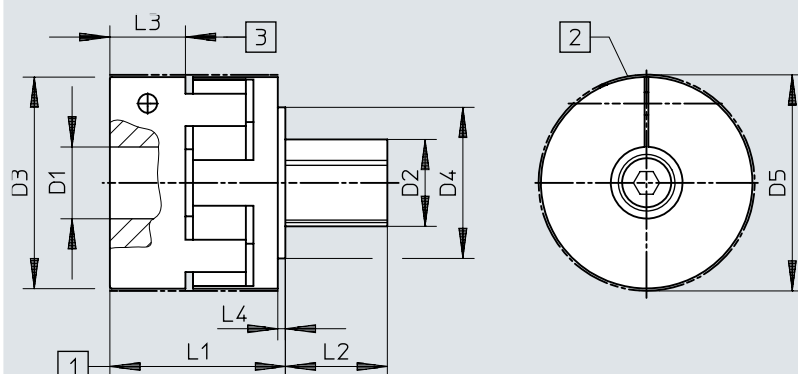
[1] Nominal length with axial offset compensation

[2] Insertion depth

	D1 Ø H7	D2 Ø H7	D3 Ø	D5 Ø	L1	L2	L3
EAMD-16-15-5-8X10	5	8	16	17	15±1	10	6,5
EAMD-16-15-6-8X10	6	8	16	17	15±1	10	6,5
EAMD-16-15-6.35-8X10	6,35	8	16	17	15±1	10	6,5
EAMD-16-15-8-8X10	8	8	16	17	15±1	10	6,5
EAMD-19-15-9-8X10	9	8	19	19	15±1	10	6,5
EAMD-19-15-10-8X10	10	8	19	19	15±1	10	6,5

Dimensions

Dimensions – EAMD-21...42

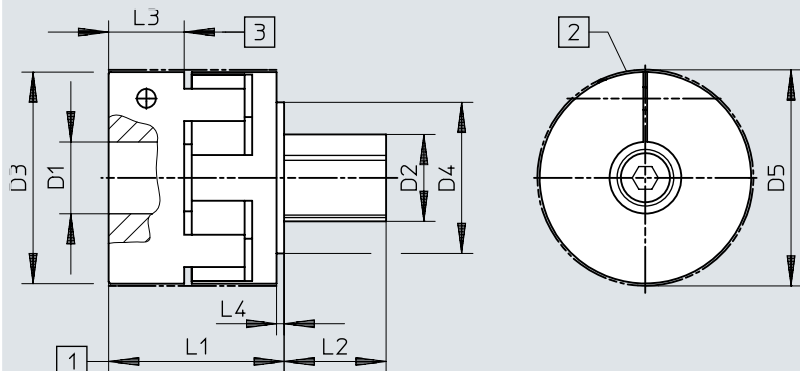
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- [1] Nominal length with axial offset compensation
 [2] Min. installation $\varnothing$ (interfering contour of the clamping screw)
 [3] Insertion depth

	D1 $\varnothing$ H7	D2 $\varnothing$ H7	D3 $\varnothing$	D4 $\varnothing$	D5 $\varnothing$	L1	L2	L3	L4
EAMD-21-15-11-8X10	11	8	21	–	21,5	15 $\pm$ 1	10	6,5	–
EAMD-21-15-12-8X10	12	8	21	–	21,5	15 $\pm$ 1	10	6,5	–
EAMD-25-22-6.35-10X12	6,35	10	25	22	25	22 $\pm$ 1	12	8,1	1
EAMD-25-22-8-10X12	8	10	25	22	25	22 $\pm$ 1	12	8,1	1
EAMD-25-22-9-10X12	9	10	25	22	25	22 $\pm$ 1	12	8,1	1
EAMD-25-22-10-10X12	10	10	25	22	25	22 $\pm$ 1	12	8,1	1
EAMD-25-22-11-10X12	11	10	25	22	25	22 $\pm$ 1	12	8,1	1
EAMD-25-22-12-10X12	12	10	25	22	25	22 $\pm$ 1	12	8,1	1
EAMD-28-22-14-10X12	14	10	28	22	28	22 $\pm$ 1	12	8,1	1
EAMD-30-22-16-10X12	16	10	30	22	30	22 $\pm$ 1	12	8,1	1
EAMD-32-32-9-16X20	9	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-32-32-10-16X20-U	10	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-32-32-11-16X20	11	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-32-32-11-16X20-U	11	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-32-32-12-16X20	12	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-32-32-14-16X20	14	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-32-32-14-16X20-U	14	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-32-32-16-16X20	16	16	32	25	32	32 $\pm$ 1	20	10,3	1,5
EAMD-33-22-19-10X12	19	10	33	22	33	22 $\pm$ 1	12	8,1	1
EAMD-42-40-10-16X25	10	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-11-16X25	11	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-12-16X25	12	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-12-16X25-U	12	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-14-16X25-U	14	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-16-16X25	16	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-16-16x25-U	16	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-18-16X25	18	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-19-16X25	19	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-19-16x25-U	19	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-20-16X25	20	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-20-16X25-U	20	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-40-22-16X25	22	16	42	25	44,5	40 $\pm$ 2	25	17	1,5
EAMD-42-48-16-16X25	16	16	42	25	44,5	48 $\pm$ 2	25	25	1,5
EAMD-42-48-19-16X25	19	16	42	25	44,5	48 $\pm$ 2	25	25	1,5

Dimensions

Dimensions – Annular gear coupling with expanding mandrel EAMD-56 ... 67

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- [1] Nominal length with axial offset compensation
 [2] Min. installation $\varnothing$ (interfering contour of the clamping screw)
 [3] Insertion depth

	D1 $\varnothing$ H7	D2 $\varnothing$ H7	D3 $\varnothing$	D4 $\varnothing$	D5 $\varnothing$	L1	L2	L3	L4
EAMD-56-46-14-23X27	14	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-16-23X27	16	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-18-23X27	18	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-19-23X27	19	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-19-23X27-U	19	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-20-23X27	20	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-20-23X27-U	20	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-22-23X27	22	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-22-23X27-U	22	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-24-23X27	24	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-24-23X27-U	24	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-25-23X27	25	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-25-23X27-U	25	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-46-32-23X27	32	23	56	40	57	46,5 $\pm$ 2	27	20	2
EAMD-56-54-18-23X27	18	23	56	40	57	54,5 $\pm$ 2	27	20	2
EAMD-56-54-19-23X27	19	23	56	40	57	54,5 $\pm$ 2	27	20	2
EAMD-56-54-22-23X27	22	23	56	40	57	54,5 $\pm$ 2	27	20	2
EAMD-56-56-25-23X27-U	25	23	56	40	57	56,5 $\pm$ 2	27	20	2
EAMD-56-56-32-23X27-U	32	23	56	40	57	56,5 $\pm$ 2	27	20	2
EAMD-56-62-20-23X27	20	23	56	40	57	62,5 $\pm$ 2	27	20	2
EAMD-67-51-16-32x32-U	16	32	66,5	–	68	51 $\pm$ 2	32	21,25	–
EAMD-67-51-19-32X32-U	19	32	66,5	–	68	51 $\pm$ 2	32	21,25	–
EAMD-67-51-20-32X32-U	20	32	66,5	–	68	51 $\pm$ 2	32	21,25	–
EAMD-67-51-22-32X32-U	22	32	66,5	–	68	51 $\pm$ 2	32	21,25	–
EAMD-67-51-24-32X32-U	24	32	66,5	–	68	51 $\pm$ 2	32	21,25	–
EAMD-67-51-25-32X32-U	25	32	66,5	–	68	51 $\pm$ 2	32	21,25	–
EAMD-67-51-32-32X32-U	32	32	66,5	–	68	51 $\pm$ 2	32	21,25	–
EAMD-67-65-32-32X32-U	32	32	66,5	–	68	65 $\pm$ 2	32	21,25	–
EAMD-67-65-40-32X32-U	32	32	66,5	–	68	65 $\pm$ 2	32	21,25	–
EAMD-67-82-24-32X32-U	24	32	66,5	–	68	82 $\pm$ 2	32	21,25	–
EAMD-67-82-25-32X32-U	25	32	66,5	–	68	82 $\pm$ 2	32	21,25	–
EAMD-67-82-32-32X32-U	32	32	66,5	–	68	82 $\pm$ 2	32	21,25	–
EAMD-67-96-32-32x32-U	32	32	66,5	–	68	96 $\pm$ 2	32	21,25	–

Ordering data

Annular gear coupling with expanding mandrel EAMD					
	Size	Nominal length	Inside diameter 1	Part no.	Type
	16	15 mm	5 mm	4819892	EAMD-16-15-5-8X10
			6 mm	4819883	EAMD-16-15-6-8X10
			6.35 mm	561292	EAMD-16-15-6.35-8X10
			8 mm	1184697	EAMD-16-15-8-8X10
	19		9 mm	557999	EAMD-19-15-9-8X10
			10 mm	557998	EAMD-19-15-10-8X10
	21		11 mm	4820350	EAMD-21-15-11-8X10
			12 mm	4820335	EAMD-21-15-12-8X10
	25	22 mm	6.35 mm	561293	EAMD-25-22-6.35-10X12
			8 mm	5010861	EAMD-25-22-8-10X12
			9 mm	3717923	EAMD-25-22-9-10X12
			10 mm	1453860	EAMD-25-22-10-10X12
			11 mm	558000	EAMD-25-22-11-10X12
			12 mm	5029897	EAMD-25-22-12-10X12
	28		14 mm	1453861	EAMD-28-22-14-10X12
	30		16 mm	5030235	EAMD-30-22-16-10X12
	32	32 mm	9 mm	5038002	EAMD-32-32-9-16X20
			10 mm	5273329	EAMD-32-32-10-16X20-U
			11 mm	558001	EAMD-32-32-11-16X20
				8086050	EAMD-32-32-11-16X20-U
			12 mm	8070762	EAMD-32-32-12-16X20
			14 mm	8086051	EAMD-32-32-14-16X20-U
				1377840	EAMD-32-32-14-16X20
			16 mm	1184858	EAMD-32-32-16-16X20
	33	22 mm	19 mm	5030024	EAMD-33-22-19-10X12
	42	40 mm	10 mm	5200227	EAMD-42-40-10-16X25
			11 mm	8203729	EAMD-42-40-11-16X25-U
				5200234	EAMD-42-40-11-16X25
			12 mm	8203728	EAMD-42-40-12-16X25-U
				5200241	EAMD-42-40-12-16X25
			14 mm	3420022	EAMD-42-40-14-16X25-U
			16 mm	5153079	EAMD-42-40-16-16X25
				8203726	EAMD-42-40-16-16X25-U
			18 mm	5056644	EAMD-42-40-18-16X25
			19 mm	558002	EAMD-42-40-19-16X25
				8203727	EAMD-42-40-19-16X25-U
			20 mm	1188350	EAMD-42-40-20-16X25
			1781043	EAMD-42-40-20-16X25-U	
			5046328	EAMD-42-40-22-16X25	
	48 mm	16 mm	8121126	EAMD-42-48-16-16X25	
		19 mm	8121127	EAMD-42-48-19-16X25	
	56	46 mm	16 mm	8166642	EAMD-56-46-16-23X27
			19 mm	8164975	EAMD-56-46-19-23X27-U
			20 mm	8165049	EAMD-56-46-20-23X27-U
			22 mm	8164974	EAMD-56-46-22-23X27-U
			24 mm	8134726	EAMD-56-46-24-23X27-U
		46.5 mm	14 mm	5062229	EAMD-56-46-14-23X27
			18 mm	5063729	EAMD-56-46-18-23X27
			19 mm	558003	EAMD-56-46-19-23X27
			20 mm	558004	EAMD-56-46-20-23X27
			24 mm	558005	EAMD-56-46-24-23X27
			25 mm	1781045	EAMD-56-46-25-23X27-U
				1188801	EAMD-56-46-25-23X27
			32 mm	5063745	EAMD-56-46-32-23X27
			54.5 mm	18 mm	5225774
19 mm		5215476		EAMD-56-54-19-23X27	

Ordering data

Annular gear coupling with expanding mandrel EAMD					
	Size	Nominal length	Inside diameter 1	Part no.	Type
	56	54.5 mm	22 mm	5226828	EAMD-56-54-22-23X27
		56 mm	25 mm	8196717	EAMD-56-56-25-23X27-U
			32 mm	8196718	EAMD-56-56-32-23X27-U
		62.5 mm	20 mm	5228153	EAMD-56-62-20-23X27
	67	51 mm	16 mm	5071095	EAMD-67-51-16-32X32-U
			19 mm	3398671	EAMD-67-51-19-32X32-U
			20 mm	3717812	EAMD-67-51-20-32X32-U
			22 mm	5070937	EAMD-67-51-22-32X32-U
			24 mm	558008	EAMD-67-51-24-32X32-U
			25 mm	558006	EAMD-67-51-25-32X32-U
			32 mm	1379269	EAMD-67-51-32-32X32-U
		65 mm	25 mm	8196715	EAMD-67-65-25-32X32-U
			32 mm	8196716	EAMD-67-65-32-32X32-U
			40 mm	8196714	EAMD-67-65-40-32X32-U
		82 mm	24 mm	558009	EAMD-67-82-24-32X32-U
			25 mm	558007	EAMD-67-82-25-32X32-U
		96 mm	32 mm	8197587	EAMD-67-96-32-32X32-U