Multi-axis modular systems



Multi-axis modular systems

The concept

handling and assembly technology includes basic, connecting and installation components for assembly. These standardised axis combinations are the product of over ten years' experi-

→38

→20



Multi-axis modular systems Key features



Linear gantries



Three-dimensional gantries



→ Internet: www.festo.com/catalogue/...







Application



Pick & place Product range overview

SL/DGSL	SLT(E)/SLT(E)	HM/DGSL, SLT(E)	HM/HMP
iL	SLT(E)	НМР	НМР
umatic/electric			
ck absorber, adjustable/	Shock absorber, adjustable/	Intermediate position	
-adjustable cushioning	non-adjustable cushioning		
i L	SLT(E)	DGSL, SLT(E)	НМР
umatic/electric			
ck absorber,	Shock absorber,	Shock absorber,	Intermediate position,
ustable/non-adjustable	adjustable/non-adjustable	adjustable/non-adjustable	clamping unit
hioning	cushioning	cushioning	
		_	
	-		
-	-		
-	-	-	

Pick & place Selection aid for basic, connecting and installation components

Y-axis			
Function		DGSL/DGSL	SLT/SLT
K	>	<u>P</u>	
Pneumatic		Туре	
drives	Stroke [mm]		
DGSL-12	30 150	HMBSY-DGSL-1	-
		→ 10	
DGSL-16	30 150	HMBSY-DGSL-1	-
		→ 10	
DGSL-20	30 100	HMBSY-DGSL-2	-
		→ 10	
	125 200	HMBSY-DGSL-3	-
		→ 10	
DGSL-25	30 100	HMBSY-DGSL-4	-
		→ 10	
	125 200	HMBSY-DGSL-5	-
		→ 10	
SLT-16	30 150	-	HMBSY-SLT-1
			→ 11
SLT-20	30 100	-	HMBSY-SLT-2
			→ 11
	125 200	-	HMBSY-SLT-3
0.7			→11
SLT-25	30 100	-	HMBSY-SLT-4
			→11
	125 200	-	HMBSY-SLT-5
			→ 11

Selection aid for basic, connecting and installation components

Y-axis			
Function		HMP, DGSL, SLT	HMP, HMP
K	7		
Pneumatic		Туре	
drives	Stroke [mm]		
HMP-16	150 250	HMBSY-HMP-1	-
		→ 12	
	320	HMBSY-HMP-2	-
		→ 12	
HMP-20	100 250	HMBSY-HMP-3	HMBSY-HMP-3
		→ 12	→ 12
	320 400	HMBSY-HMP-4	HMBSY-HMP-4
		→ 12	→ 12
HMP-25	100 200	HMBSY-HMP-5	HMBSY-HMP-5
		→ 13	→ 13
	250 400	HMBSY-HMP-6	HMBSY-HMP-6
		→ 13	→ 13
HMP-32	100 200	-	HMBSY-HMP-7
			→ 13
	250 400	-	HMBSY-HMP-8
			→ 13

Selection example

Y-axis:

Z-axis:

Project engineering produced the following drive combination:

HMP-16,

HMP-16

200 mm stroke

Step 1

Y-axis:

Z-axis:

Define the drive type in the selection aids for the Y or Z-axis. The associated parts list can be found on the specified page.

HMBSY-HMP-1

HMBSZ-HMP-1

➔ 12

→ 18

Step 2

The necessary basic, connecting and installation components can be found in the parts list on the specified page.

Y-axis: HMBSY-HMP-1

Z-axis: HMBSZ-HMP-1

Step 3

Technical data on the basic, connecting and installation components can be found on the specified pages. Further accessories for the selected drives, for example proximity sensors, centring sleeves, etc. are listed in the documentation for the drives.

Pick & place Selection aid for basic, connecting and installation components

Z-axis				
Function	DGSL/DGSL	SLT/SLT	HMP, DGSL	
Ĵ	<u>P</u>		R.	
Pneumatic	Туре			
drives				
DGSL-10	HMBSZ-DGSL-1 → 14	-	-	
DGSL-12	HMBSZ-DGSL-9 →	-	-	
DGSL-16	HMBSZ-DGSL-2 → 14	-	HMBSZ-DGSL-4 → 15	
DGSL-20	HMBSZ-DGSL-3 → 14	-	HMBSZ-DGSL-5 → 15	
DGSL-25	-	-	HMBSZ-DGSL-6 → 15	
SLT-10	-	HMBSZ-SLT-1 → 16	-	
SLT-16	-	HMBSZ-SLT-2 → 16	-	
SLT-20	-	HMBSZ-SLT-3 → 16	-	
SLT-25	-	-	-	
HMP-16	-	-	-	
HMP-20	-	-	-	
HMP-25	-	-	-	

Pick & place Selection aid for basic, connecting and installation components

Z-axis		
Function	HMP, SLT	нмр, нмр
Ĵ		
Pneumatic	Туре	
drives		
SLT-16	HMBSZ-SLT-4	-
	→ 17	
SLT-20	HMBSZ-SLT-5	-
	→ 17	
SLT-25	HMBSZ-SLT-6	-
	→ 17	
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
HMP-16	-	HMBSZ-HMP-1
		→ 18
HMP-20	-	HMBSZ-HMP-2
		→ 18
HMP-25	-	HMBSZ-HMP-3
		→ 18

Selectio	n example						
Project engineering produced the following drive combination:		aids for t parts list	Step 1 Define the drive type in the selection aids for the Y or Z-axis. The associated parts list can be found on the specified page.		ssary basic, connecting and on components can be found rts list on the specified page.	Step 3 Technical data on the basic, connect- ing and installation components can be found on the specified pages. Further accessories for the selected drives, for example proximity sensors	
Y-axis:	HMP-16, 200 mm stroke	Y-axis:	HMBSY-HMP-1 ➔ 12	Y-axis:	HMBSY-HMP-1	centring sleeves, etc. are listed in the documentation for the drives.	
Z-axis:	HMP-16	Z-axis:	HMBSZ-HMP-1 → 18	Z-axis:	HMBSZ-HMP-1		



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Pick & place



Parts lis	t						
Туре		HMBSY-DGSL-1	HMBSY-DGSL-2	HMBSY-DGSL-3	HMBSY-DGSL-4	HMBSY-DGSL-5	
For o	drives	DGSL-12/-16	DGSL-20		DGSL-25		
Stro	ke [mm]	30 150	30 100	125 200	30 100	125 200	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 968	539 969	-	539 969	-	79
		HMVY-1	HMVY-2		HMVY-2		
2	1	-	-	539 970	-	539 970	
				HMVY-3		HMVY-3	
3	1	175 967	175 967	-	175 967	-	65
		HMBV-ND	HMBV-ND		HMBV-ND		
4	2	-	-	175 967	-	175 967	
				HMBV-ND		HMBV-ND	
5	11)	175 958	175 958	175 958	175 958	175 958	62
		HMBS-80/80	HMBS-80/80	HMBS-80/80	HMBS-80/80	HMBS-80/80	
6	1	175 965	175 965	175 965	175 965	175 965	62
		HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	
7	2	175 951	175 951	175 951	175 951	175 951	64
		HMBF-DB	HMBF-DB	HMBF-DB	HMBF-DB	HMBF-DB	
8	1	175 126	175 126	175 126	175 126	175 126	95
		HMZV	HMZV	HMZV	HMZV	HMZV	
9	1	192 289	192 290	192 290	192 290	192 290	102
		MKRS-16,5-B	MKRS-23-B	MKRS-23-B	MKRS-23-B	MKRS-23-B	
		548 803	548 804	548 804	548 804	548 804	71
		ZBV-M5-7	ZBV-M6-9	ZBV-M6-9	ZBV-M6-9	ZBV-M6-9	
11	1	177 571	177 572	177 572	177 572	177 572	96
		MKRV-16,5-PG-16	MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	
12	12)	177 566	177 567	177 567	177 567	177 567	94
-		MKR-16,5-PG-16	MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	
13	1	193 949	177 595	177 595	177 595	177 595	100
-		MKA-PG-29-PG-16-KU	MKA-PG-29-PG-21	MKA-PG-29-PG-21	MKA-PG-29-PG-21	MKA-PG-29-PG-21	

Height max. 500 mm
Length depends on the stroke of the drive (scope of delivery: 1m)



Parts li	st						
Туре		HMBSY-SLT-1	HMBSY-SLT-2	HMBSY-SLT-3	HMBSY-SLT-4	HMBSY-SLT-5	
For	drives	SLT-16	SLT-20	I	SLT-25	I	
Stro	oke [mm]	30 150	30 100	125 200	30 100	125 200	→ Page/
ltem	Pieces	Part No. Type	Internet				
1	1	539 968	539 969	-	539 969	-	79
		HMVY-1	HMVY-2		HMVY-2		
2	1	-	-	539 970	-	539 970	
				HMVY-3		HMVY-3	
3	1	175 967	175 967	-	175 967	-	65
		HMBV-ND	HMBV-ND		HMBV-ND		
4	2	-	-	175 967	-	175 967	
				HMBV-ND		HMBV-ND	
5	11)	175 958	175 958	175 958	175 958	175 958	62
		HMBS-80/80	HMBS-80/80	HMBS-80/80	HMBS-80/80	HMBS-80/80	
6	1	175 965	175 965	175 965	175 965	175 965	62
		HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	
7	2	175 951	175 951	175 951	175 951	175 951	64
		HMBF-DB	HMBF-DB	HMBF-DB	HMBF-DB	HMBF-DB	
8	1	175 126	175 126	175 126	175 126	175 126	95
		HMZV	HMZV	HMZV	HMZV	HMZV	
9	1	193 124	193 124	193 124	193 124	193 124	103
		HMZAS-PG-21	HMZAS-PG-21	HMZAS-PG-21	HMZAS-PG-21	HMZAS-PG-21	
10	1	177 599	177 599	177 599	177 599	177 599	100
		MKM-PG-21	MKM-PG-21	MKM-PG-21	MKM-PG-21	MKM-PG-21	
11	2	177 572	177 572	177 572	177 572	177 572	96
		MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	
12	1 ²⁾	177 567	177 567	177 567	177 567	177 567	94
		MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	
13	1	177 595	177 595	177 595	177 595	177 595	100
		MKA-PG-29-PG-21	MKA-PG-29-PG-21	MKA-PG-29-PG-21	MKA-PG-29-PG-21	MKA-PG-29-PG-21	

Height max. 500 mm
Length depends on the stroke of the drive (scope of delivery: 1m)

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Parts li	st					
Туре		HMBSY-HMP-1	HMBSY-HMP-2	HMBSY-HMP-3	HMBSY-HMP-4	
For drives HMP-16		HMP-16		HMP-20		
Stro	oke [mm]	150 250	320	100 250	320 400	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	2	175 975	175 975	175 975	175 975	79
		HMBK-WS	HMBK-WS	HMBK-WS	HMBK-WS	
2	2	175 967	175 967	175 967	175 967	65
		HMBV-ND	HMBV-ND	HMBV-ND	HMBV-ND	
3	21)	175 958	175 958	175 958	175 958	62
		HMBS-80/80	HMBS-80/80	HMBS-80/80	HMBS-80/80	
4	12)	-	175 958	-	175 958	
			HMBS-80/80		HMBS-80/80	
5	2	175 965	175 965	175 965	175 965	62
		HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	
6	1	175 972	-	175 972	-	63
		HMBSV		HMBSV		
7	2	175 951	175 951	175 951	175 951	64
		HMBF-DB	HMBF-DB	HMBF-DB	HMBF-DB	
8	2	177 572	177 572	177 573	177 573	96
		MKRV-23-PG-21	MKRV-23-PG-21	MKRV-29-PG-29	MKRV-29-PG-29	
9	1 ³⁾	177 567	177 567	177 568	177 568	94
		MKR-23-PG-21	MKR-23-PG-21	MKR-29-PG-29	MKR-29-PG-29	
10	1	177 595	177 595	-	-	100
		MKA-PG-29-PG-21	MKA-PG-29-PG-21			
11	1	175 126	175 126	175 126	175 126	95
		HMZV	HMZV	HMZV	HMZV	
12	1	177 599	177 599	177 600	177 600	100
		MKM-PG-21	MKM-PG-21	MKM-PG-29	MKM-PG-29	
13	2	-	178 228	-	178 228	63
			HMBSW		HMBSW	

Height max. 500 mm
Length 250 mm
Length depends on the stroke of the drive (scope of delivery: 1m)

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Parts lis	st					
Туре		HMBSY-HMP-5	HMBSY-HMP-6	HMBSY-HMP-7	HMBSY-HMP-8	
For drives HMP-25		HMP-25		HMP-32		
Stro	ke [mm]	100 200	250 400	100 200	250 400	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	2	175 970	175 970	175 970	175 970	78
		HMBK-ND	HMBK-ND	HMBK-ND	HMBK-ND	
2	2	175 967	175 967	175 967	175 967	65
		HMBV-ND	HMBV-ND	HMBV-ND	HMBV-ND	
3	21)	175 958	175 958	175 958	175 958	62
		HMBS-80/80	HMBS-80/80	HMBS-80/80	HMBS-80/80	
4	1 ²⁾	-	175 958	-	175 958	
			HMBS-80/80		HMBS-80/80	
5	2	175 965	175 965	175 965	175 965	62
		HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	HMBSA-80/80	
6	1	175 972	-	175 972	-	63
		HMBSV		HMBSV		
7	2	175 951	175 951	175 951	175 951	64
		HMBF-DB	HMBF-DB	HMBF-DB	HMBF-DB	
8	2	177 573	177 573	177 573	177 573	96
		MKRV-29-PG-29	MKRV-29-PG-29	MKRV-29-PG-29	MKRV-29-PG-29	
9	1 ³⁾	177 568	177 568	177 568	177 568	94
		MKR-29-PG-29	MKR-29-PG-29	MKR-29-PG-29	MKR-29-PG-29	
10	1	175 126	175 126	175 126	175 126	95
		HMZV	HMZV	HMZV	HMZV	
11	1	177 600	177 600	177 600	177 600	100
		MKM-PG-29	MKM-PG-29	MKM-PG-29	MKM-PG-29	
12	2	-	178 228	-	178 228	63
			HMBSW		HMBSW	

Height max. 500 mm
Length 350 mm
Length depends on the stroke of the drive (scope of delivery: 1m)





Parts lis	t					
Туре		HMBSZ-DGSL-1	HMBSZ-DGSL-9	HMBSZ-DGSL-2	HMBSZ-DGSL-3	
For o	drives	DGSL-10	DGSL-12	DGSL-16	DGSL-20	
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	→ Page/Internet
1	2	192 289	192 289	192 289	192 290	103
		MKRS-16,5-B	MKRS-16,5-B	MKRS-16,5-B	MKRS-23-B	
		M4x12 DIN 912	548 803	548 803	548 804	71
			ZBV-M5-7	ZBV-M5-7	ZBV-M6-9	
4	11)	177 566	177 566	177 566	177 567	94
		MKR-16,5-PG-16	MKR-16,5-PG-16	MKR-16,5-PG-16	MKR-23-PG-21	
5	1	193 949	193 949	193 949	177 595	100
		MKA-PG-29-PG-16-KU	MKA-PG-29-PG-16-KU	MKA-PG-29-PG-16-KU	MKA-PG-29-PG-21	
6	1	177 571	177 571	177 571	177 572	96
		MKRV-16,5-PG-16	MKRV-16,5-PG-16	MKRV-16,5-PG-16	MKRV-23-PG-21	
7	1	548 803	-	548 804	-	71
		ZBV-M5-7		ZBV-M6-9		
		-	186 717	-	150 927	70
			ZBH-7 ²⁾		ZBH-9 ²⁾	
7	2	-	M5x14 DIN 912	-	M6x20 DIN 912	-

Length depends on the stroke of the drive (scope of delivery: 1m)
Centring sleeves are included in the scope of delivery of the mini slide DGSL

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Parts lis	st				
Type HMBSZ-DGSL-4		HMBSZ-DGSL-4	HMBSZ-DGSL-5	HMBSZ-DGSL-6	
For	drives	DGSL-16	DGSL-20	DGSL-25	
tem	Pieces	Part No. Type	Part No. Type	Part No. Type	→ Page/Internet
1	2	192 289	192 290	192 290	102
		MKRS-16,5-B	MKRS-23-B	MKRS-23-B	
		548 803	548 804	548 804	71
		ZBV-M5-7	ZBV-M6-9	ZBV-M6-9	
2	1	177 571	177 572	177 572	96
		MKRV-16,5-PG-16	MKRV-23-PG-21	MKRV-23-PG-21	
4	11)	177 566	177 567	177 567	94
		MKR-16,5-PG-16	MKR-23-PG-21	MKR-23-PG-21	
5	1	193 949	177 595	177 595	100
		MKA-PG-29-PG-16-KU	MKA-PG-29-PG-21	MKA-PG-29-PG-21	
6	1	548 779	548 779	548 779	8
		HMSV-49	HMSV-49	HMSV-49	

1) Length depends on the stroke of the drive (scope of delivery: 1m)





Parts lis	t				
Type HMBSZ-SLT-1		HMBSZ-SLT-1	HMBSZ-SLT-2	HMBSZ-SLT-3	
For drives		SLT-10	SLT-16	SLT-20	
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	→ Page/Internet
1	1	192 289	193 124	193 124	103
		MKRS-16,5-B	HMZAS-PG-21	HMZAS-PG-21	
2	1	-	177 572	177 572	96
			MKRV-23-PG-21	MKRV-23-PG-21	
3	1	-	177 599	177 599	100
			MKM-PG-21	MKM-PG-21	
4	1 ¹⁾	177 566	177 567	177 567	94
		MKR-16,5-PG-16	MKR-23-PG-21	MKR-23-PG-21	
5	1	193 949	177 595	177 595	100
		MKA-PG-29-PG-16-KU	MKA-PG-29-PG-21	MKA-PG-29-PG-21	
6	1	177 571	177 572	177 572	96
		MKRV-16,5-PG-16	MKRV-23-PG-21	MKRV-23-PG-21	
7	_2)	186 717	150 927	189 653	-
		ZBH-7	ZBH-9	ZBH-12	
	2	M4x25 DIN 912	M5x30 DIN 912	M6x40 DIN 912	-

Length depends on the stroke of the drive (scope of delivery: 1m)
Centring sleeves are included in the scope of delivery of the mini slide SLT.



Parts lis	st				
Туре		HMBSZ-SLT-4	HMBSZ-SLT-5	HMBSZ-SLT-6	
For	drives	SLT-16	SLT-20	SLT-25	
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	→ Page/Internet
1	1	193 124	193 124	193 124	103
		HMZAS-PG-21	HMZAS-PG-21	HMZAS-PG-21	
2	2	177 572	177 572	177 572	96
		MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	
3	1	177 599	177 599	177 599	100
		MKM-PG-21	MKM-PG-21	MKM-PG-21	
4	11)	177 567	177 567	177 567	94
		MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	
5	1	177 595	177 595	177 595	100
		MKA-PG-29-PG-21	MKA-PG-29-PG-21	MKA-PG-29-PG-21	
6	1	178 331	178 332	178 332	9
		HMSV-36	HMSV-37	HMSV-37	

1) Length depends on the stroke of the drive (scope of delivery: 1m)

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Tuno		HMBSZ-HMP-1	HMBSZ-HMP-2	HMBSZ-HMP-3	
Туре			-		
For	drives	HMP-16	HMP-20	HMP-25	
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	→ Page/Internet
1	1	193 124	177 603	177 603	103
		HMZAS-PG-21	HMZAS-PG-29	HMZAS-PG-29	
2	3	177 599	177 600	177 600	100
		MKM-PG-21	MKM-PG-29	MKM-PG-29	
3	3	177 572	177 573	177 573	96
		MKRV-23-PG-21	MKRV-29-PG-29	MKRV-29-PG-29	
4	21)	177 567	177 568	177 568	94
		MKR-23-PG-21	MKR-29-PG-29	MKR-29-PG-29	
5	1	177 577	177 578	177 578	97
		MKRL-23-PG-21	MKRL-29-PG-29	MKRL-29-PG-29	
6	1	177 595	-	-	100
		MKA-PG-29-PG-21			
7	1	177 647	177 649	177 653	72
		HMSV-1	HMSV-3	HMSV-7	

1) Length depends on the stroke of the drive (scope of delivery: 1m)



Linear gantries Key features





Linear gantries Product range overview

Selection aid								
System type		Mono 25	Mono 40	Duo 25		Duo 40		Duo 63
z]	7 Y		9*			e F		C.
Y-axis		DG25	DG40	DG25		DG40		DG50/63
Drive type		Pneumatic, pn	eumatic with end-po	sition controller S	PC11 (Soft Stop) o	r electric		
Options		Spindle or toot	hed belt axis					
				-				
Z-axis		DGSL-12	DGSL-16		DGSL-20	DGSL-25	DGPL-40	DGPL-50
		SLT-16	SLT-20		SLT-25	HMP-25	DGC-40	DGPL-63
			HMP-16		HMP-20		HMP-32	DGC-50
								DGC-63
Drive type		Pneumatic						
Options		-	Intermediate position with HMP		Intermediate position with HMP		Intermediate position with HMP	
Z-axis		DGEA-18	DGEA-18		DGEA-25	DGEA-25	DGEA-40	DGEA-40
			DGE-25-SP-KF		DGE-40-SP-KF	DGE-40-SP-KF	DGE-40-SP-KF	DGE-63-SP-KF
Drive type		Electric			-	4		
Options		- Spindle or toothed belt axis		ed belt axis	Spindle or toothed belt axis		Spindle or toothed belt axis	
Effective load [kg]								
	1		•					
	2		-					
	3	-	-					
	4	-	l l					
	6	-	-	_				
	10	-	-	-	-			
	15	-	-	_	-	-		
	25	-		-	-	-	-	
→ Page/Internet		22						

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Y-axis				
System typ	e	Mono 25	Mono 40	Duo 25
K	7		S.	
Pneumatic drives		Туре		
DGPL-25		HMBSY-LP-M25-1	-	HMBSY-LP-D25-1
		→ 26		→ 28
DGC-25		HMBSY-LP-M25-2	-	HMBSY-LP-D25-2
		→ 26		→ 28
DGPL-25 w	ith SPC11	HMBSY-LP-M25-3	-	HMBSY-LP-D25-3
		→ 26		→ 28
			L	
DGPL-40		-	HMBSY-LP-M40-1	-
			→ 27	
DGC-40		-	HMBSY-LP-M40-2	-
			→ 27	
DGPL-40 w	ith SPC11	-	HMBSY-LP-M40-3	-
			→ 27	
Electric		Туре		
drives				
DGE-25	-SP-KF	HMBSY-LP-M25-1	-	HMBSY-LP-D25-1
	-ZR-KF	→ 26		→ 28
	-ZR-RF	HMBSY-LP-M25-4	-	HMBSY-LP-D25-4
		→ 26		→ 28
		· ·	· · · · ·	· · · · · · · · · · · · · · · · · · ·
DGE-40	-SP-KF	-	HMBSY-LP-M40-1	-
	-ZR-KF		→ 27	
	-ZR-RF			

Selection example:

Project engineering produced the following drive combination:		aids for t parts list	Step 1 Define the drive type in the selection aids for the Y or Z-axis. The associated parts list can be found on the specified page.		ssary basic, connecting and on components can be found rts list on the specified page.	Step 3 Technical data on the basic, connect- ing and installation components can be found on the specified pages. Further accessories for the selected drives, for example proximity sensors,	
Y-axis:	Duo 25 system with DGE-25-ZR-RF	Y-axis:	HMBSY-LP-D25-4 → 28	Y-axis:	HMBSY-LP-D25-4	centring sleeves, etc. are listed in the documentation for the drives.	
Z-axis:	SLT-20	Z-axis:	HMBSZ-SLT-7 → 32	Z-axis:	HMBSZ-SLT-7		

Y-axis			
System type		Duo 40	Duo 63
K	>	SH	S.
Pneumatic		Туре	
drives			
DGPL-40		HMBSY-LP-D40-1 → 29	-
DGC-40		HMBSY-LP-D40-2 → 29	-
DGPL-40 wit	h SPC11	HMBSY-LP-D40-3 → 29	-
DGPL-50		-	HMBSY-LP-D50/63
DGPL-63			→ 30
DGC-50		-	HMBSY-LP-D50-2 → 30
DGC-63		-	HMBSY-LP-D63-2 → 30
Electric drives		Туре	
DGE-40	-SP-KF -ZR-KF -ZR-RF	HMBSY-LP-D40-1 → 29	-
DGE-63	-SP-KF -ZR-KF -ZR-RF	-	HMBSY-LP-D50/63 → 30

F	C	
		ш.

Z-axis			
System type	Mono 25	Mono 40	Duo 25
Ĵ		<u>s</u>	
Pneumatic	Туре		
drives			
DGSL-12	HMBSZ-DGSL-7	-	-
D (C) + (→ 31		
DGSL-16	-	HMBSZ-DGSL-7	HMBSZ-DGSL-7
	_	→ 31 -	→ 31
DGSL-20	-	-	HMBSZ-DGSL-8
			→ 31
SLT-16	HMBSZ-SLT-7	_	_
SLI-10	→ 32	-	-
SLT-20	-	HMBSZ-SLT-7	HMBSZ-SLT-7
JLI-20		→ 32	→ 32
SLT-25			HMBSZ-SLT-7
56 29			→ 32
HMP-16	_	HMBSZ-HMP-4	HMBSZ-HMP-4
11111 10		→ 33	→ 33
HMP-20	-	-	HMBSZ-HMP-5
			→ 33
Electric	Туре		
drives			
DGEA-18	HMBSZ-DGEA-1	HMBSZ-DGEA-1	HMBSZ-DGEA-1
	→ 36	→ 36	→ 36
DGEA-25	_	_	HMBSZ-DGEA-2
			→ 36
DGE-25-SP-KF	-	HMBSZ-DGE-1	HMBSZ-DGE-1
		→ 37	→ 37
DGE-40-SP-KF	-	-	HMBSZ-DGE-2
			→ 37

Z-axis		
System type	Duo 40	Duo 63
1		
Pneumatic	Туре	
drives		
DGSL-25	HMBSZ-DGSL-8	-
	→ 31	
DGPL-40	HMBSZ-DL40-63/DA40	_
D0FL-40	HMB52-DL40-63/DA40 → 34	
DGPL-50	-	HMBSZ-DL40-63/DA40
DGPL-63		→ 34
DGC-40	HMBSZ-DL40-63/DA40 → 35	-
DGC-50	-	HMBSZ-DL40-63/DA40
DGC-63		→ 35
HMP-25	HMBSZ-HMP-6 → 33	-
HMP-32	HMBSZ-HMP-6 → 33	-
Electric	Туре	
drives		
DGEA-25	HMBSZ-DGEA-3	_
	→ 36	
DGEA-40	HMBSZ-DGEA-4	HMBSZ-DL40-63/DA40
	→ 36	→ 36
DGE-40-SP-KF	HMBSZ-DGE-3 → 37	-
DGE-63-SP-KF	-	HMBSZ-DL40-63/DA40
		→ 37

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Mono system for size 25 Toothed belt axes DGE, linear drives DGC, DGPL



Parts lis	st					
Туре		HMBSY-LP-M25-1	HMBSY-LP-M25-2	HMBSY-LP-M25-3	HMBSY-LP-M25-4	
For o	drives	DGPL-25	DGC-25	DGPL-25 with SPC11	DGE-25-ZR-RF	
		DGE-25-SP-KF				
		DGE-25-ZR-KF				
	em type	Mono 25				→ Page
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	21)	150 736	-	150 736	150 736	mup
		MUP-18/25		MUP-18/25	MUP-18/25	
	11)	-	531 753	-	-	muc
			MUC-25			
3	1	-	-	539 364	-	111
				HMIM-LP		
4	11)	-	-	539 973	-	85
				HMVO-POT		
5	21)	-	-	-	539 362	85
					HMVO-RF25	
6	1	539 366	539 366	539 366	539 366	111
		HMIO-AP1	HMIO-AP1	HMIO-AP1	HMIO-AP1	
7	2 ²⁾	539 972	539 972	539 972	539 972	82
		HMVM-LP-DL25/40	HMVM-LP-DL25/40	HMVM-LP-DL25/40	HMVM-LP-DL25/40	
8	1 ³⁾	539 378	539 378	539 378	539 378	116
		HMIA-E05	HMIA-E05	HMIA-E05	HMIA-E05	
9	1	539 368	539 368	539 368	539 368	84
		HMVS-DL25	HMVS-DL25	HMVS-DL25	HMVS-DL25	
10	1	-	-	539 365	-	114
				HMIZB-E03		
1	1 ³⁾	IGUS E2 medium 2400.0	5.100 and 211 or	1	I	-
		ENERGY CHAIN MC 0320.	55-01-100 and TS O/n _T 2			
12	2	IGUS E2 medium 2050.ZE				-
		ENERGY CHAIN MC FA/MA				

Per basic kit HMVM-LP-DL25/40
Quantity with stroke ₄₯00 mm. With stroke > 500 mm, a basic kit HMVM-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.
Length depends on the stroke of the drive

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Parts lis	st				
Туре		HMBSY-LP-M40-1	HMBSY-LP-M40-2	HMBSY-LP-M40-3	
For drives		DGPL-40	DGC-40	DGPL-40 with SPC11	
		DGE-40-SP-KF			
		DGE-40-ZR-KF			
		DGE-40-ZR-RF			
Syst	em type	Mono 40			→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	11)	-	531 755	-	muc
			MUC-40		
3	1	-	-	539 364	111
				HMIM-LP	
4	1	539 366	540 121	539 366	111
		HMIO-AP-1	HMIO-AP-2	HMIO-AP-1	
5	2 ²⁾	539 972	539 972	539 972	82
		HMVM-LP-DL25/40	HMVM-LP-DL25/40	HMVM-LP-DL25/40	
6	13)	539 378	539 378	539 378	116
		HMIA-E05	HMIA-E05	HMIA-E05	
7	1	539 369	539 369	539 369	84
		HMVS-DL40	HMVS-DL40	HMVS-DL40	
8	1	-	-	539 365	114
				HMIZB-E03	
9	13)	IGUS E2 medium 2400.05.100 a	ind 211 or		-
		ENERGY CHAIN MC 0320.55-01-2	100 and TS O/n _T 2		
10	2	IGUS E2 medium 2050.ZB or			-
		ENERGY CHAIN MC FA/MA			

1) Per basic kit HMVM-LP-DL25/40

Quantity with stroke ∠300 mm. With stroke > 500 mm, a basic kit HMVM-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.
Length depends on the stroke of the drive



Parts lis	st					
Туре		HMBSY-LP-D25-1	HMBSY-LP-D25-2	HMBSY-LP-D25-3	HMBSY-LP-D25-4	
For drives		DGPL-25 DGC-25 DGE-25-SP-KF DGE-25-ZR-KF		DGPL-25 with SPC11	DGE-25-ZR-RF	
Syst	em type	Duo 25				→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	41)	150 736 MUP-18/25	-	150 736 MUP-18/25	150 736 MUP-18/25	mup
	21)	-	531 753 MUC-25	-	-	muc
3	11)	-	-	539 973 HMVO-POT	-	85
4	41)	-	-	-	539 362 HMVO-RF25	85
5	1	539 366 HMIO-AP-1	539 366 HMIO-AP-1	539 366 HMIO-AP-1	539 366 HMIO-AP-1	111
6	2 ²⁾	539 971 HMVD-LP-DL25/40	539 971 HMVD-LP-DL25/40	539 971 HMVD-LP-DL25/40	539 971 HMVD-LP-DL25/40	82
7	13)	539 378 HMIA-E05	539 378 HMIA-E05	539 378 HMIA-E05	539 378 HMIA-E05	116
8	1	539 368 HMVS-DL25	539 368 HMVS-DL25	539 368 HMVS-DL25	539 368 HMVS-DL25	84
9	1	539 363 HMID-LP	539 363 HMID-LP	539 363 HMID-LP	539 363 HMID-LP	112
10	1	539 365 HMIZB-E03	539 365 HMIZB-E03	539 365 HMIZB-E03	539 365 HMIZB-E03	114
11	13)		IGUS E2 medium 2400.05.100 and 211 or ENERGY CHAIN MC 0320.55-01-100 and TS 0/nτ2			
12	2		IGUS E2 medium 2050.ZB or			

1) 2) 3)

Per basic kit HMVD-LP-DL25/40 Quantity with stroke 4 B00 mm. With stroke > 500 mm, a basic kit HMVD-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof. Length depends on the stroke of the drive

Duo system for size 40



Parts lis		HMBSY-LP-D40-1	HMBSY-LP-D40-2	HMBSY-LP-D40-3	l l
Туре					
For drives		DGPL-40	DGC-40	DGPL-40 with SPC11	
		DGE-40-SP-KF			
		DGE-40-ZR-KF			
		DGE-40-ZR-RF			
Syst	em type	Duo 40			→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	21)	-	531 755	-	muc
			MUC-40		
3	1	539 366	540 121	539 366	111
		HMIO-AP-1	HMIO-AP-2	HMIO-AP-1	
4	2 ²⁾	539 971	539 971	539 971	82
		HMVD-LP-DL25/40	HMVD-LP-DL25/40	HMVD-LP-DL25/40	
5	1 ³⁾	539 378	539 378	539 378	116
		HMIA-E05	HMIA-E05	HMIA-E05	
6	1	539 369	539 369	539 369	84
		HMVS-DL40	HMVS-DL40	HMVS-DL40	
7	1	539 363	539 363	539 363	112
		HMID-LP	HMID-LP	HMID-LP	
8	1	539 365	539 365	539 365	114
		HMIZB-E03	HMIZB-E03	HMIZB-E03	
9	13)	IGUS E2 medium 2400.05.100 an	d 211 or		-
		ENERGY CHAIN MC 0320.55-01-10	0 and TS 0/n _T 2		
10	2	IGUS E2 medium 2050.ZB or			-
		ENERGY CHAIN MC FA/MA			

Per basic kit HMVD-LP-DL25/40
Quantity with stroke ₄₀00 mm. With stroke > 500 mm, a basic kit HMVD-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.
Length depends on the stroke of the drive

Duo system for size 63



Parts li	st				
Туре		HMBSY-LP-D50/63	HMBSY-LP-D50-2	HMBSY-LP-D63-2	
For drives		DGPL-50 DGPL-63 DGE-63-SP-KF DGE-63-ZR-KF DGE-63-ZR-RF	DGC-50	DGC-63	
Sys	tem type	Duo 63			→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	21)	566 879	566 879	566 879	82
		HMVD-LP-DL63	HMVD-LP-DL63	HMVD-LP-DL63	
2	4 ²⁾	566 878 HMVA-63	-	-	84
2	4 ³⁾	-	531 756 MUC-50	531 757 MUC-63	muc
3	2	566 884	566 884	566 884	86
		HMVE	HMVE	HMVE	
4	1	566 883 HMVS-DL63	566 883 HMVS-DL63	566 883 HMVS-DL63	84
5	1	566 886 HMIY-LP-E07	566 886 HMIY-LP-E07	566 886 HMIY-LP-E07	113
6	14)	539 379 HMIA-E07	539 379 HMIA-E07	539 379 HMIA-E07	116
7	14)	IGUS E2 medium 2400.07.100 and 22 ENERGY CHAIN MC 0320.75-01-100 a	-		
8	2	IGUS E2 medium 2070.ZB or ENERGY CHAIN MC FA/MA			-

Quantity with stroke ≤1,000 mm. With stroke > 1,000 mm, a basic kit HMVD-LP-DL63 must be additionally ordered per 1,000 mm stroke or part thereof.
Quantity with stroke ≤1,000 mm. With stroke > 1,000 mm, two adapter kits HMVA-63 must be additionally ordered per 1,000 mm stroke or part thereof.
Quantity with stroke ≤1,000 mm. With stroke > 1,000 mm, two central supports MUC must be additionally ordered per 1,000 mm stroke or part thereof.
Length depends on the stroke of the drive

Linear gantries Z modules

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Mono/duo system Mini slides DGSL





Parts lis	st					
Type HMBSZ-DGSL-7		HMBSZ-DGSL-7		HMBSZ-DGSL-8	-DGSL-8	
For	drives	DGSL-12	DGSL-16	DGSL-20	DGSL-25	
Syst	tem type	Mono 25	Mono 40	Duo 25	Duo 40	
			Duo 25			→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 373	539 373	539 373	539 373	83
		HMVZ-2	HMVZ-2	HMVZ-2	HMVZ-2	
2	1	192 289	192 289	192 290	192 290	102
		MKRS-16,5-B	MKRS-16,5-B	MKRS-23-B	MKRS-23-B	
		548 803	548 803	548 804	548 804	71
		ZBV-M5-7	ZBV-M5-7	ZBV-M5-9	ZBV-M5-9	
5	11)	177 566	177 566	177 567	177 567	94
		MKR-16,5-PG-16	MKR-16,5-PG-16	MKR-23-PG-21	MKR-23-PG-21	
6	1	192 289	192 289	192 290	192 290	102
		MKRS-16,5-B	MKRS-16,5-B	MKRS-23-B	MKRS-23-B	

1) Length depends on the stroke of the drive (scope of delivery: 1m)

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Mono/duo system Mini slides SLT





Parts lis	st				
Type HMBSZ-SLT-7		HMBSZ-SLT-7			
For	drives	SLT-16	SLT-20	SLT-25	
Syst	em type	Mono 25	Mono 40	Duo 25	
			Duo 25		→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 373	539 373	539 373	83
		HMVZ-2	HMVZ-2	HMVZ-2	
2	1	193 124	193 124	193 124	103
		HMZAS-PG-21	HMZAS-PG-21	HMZAS-PG-21	
3	1	177 599	177 599	177 599	100
		MKM-PG-21	MKM-PG-21	MKM-PG-21	
4	1	177 572	177 572	177 572	96
		MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	
5	11)	177 567	177 567	177 567	94
		MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	
6	1	192 290	192 290	192 290	102
		MKRS-23-B	MKRS-23-B	MKRS-23-B	

1) Length depends on the stroke of the drive (scope of delivery: 1m)

Linear gantries Z modules

Mono/duo system Linear modules HMP





Parts lis	st				
Туре		HMBSZ-HMP-4	HMBSZ-HMP-5	HMBSZ-HMP-6	
For drives		HMP-16 HMP-20		HMP-25/HMP-32	
Syst	em type	Mono 40 Duo 25		Duo 40	
		Duo 25			→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 374	539 374	539 377	83
		HMVZ-3	HMVZ-3	HMVZ-6	
2	1	177 577	177 578	177 578	97
		MKRL-23-PG-21	MKRL-29-PG-29	MKRL-29-PG-29	
3	2	177 599	177 600	177 600	100
		MKM-PG-21	MKM-PG-29	MKM-PG-29	
4	11)	177 567	177 568	177 568	94
		MKR-23-PG-21	MKR-29-PG-29	MKR-29-PG-29	
5	2	192 290	192 291	192 291	102
		MKRS-23-B	MKRS-29-B	MKRS-29-B	
6	1	177 572	177 573	177 573	96
		MKRV-23-PG-21	MKRV-29-PG-29	MKRV-29-PG-29	
7	1	193 124	177 603	177 603	103
		HMZAS-PG-21	HMZAS-PG-29	HMZAS-PG-29	

1) Length depends on the stroke of the drive (scope of delivery: 1m)

Mono/duo system Linear drives DGPL





Parts lis	st			
Туре		HMBSZ-DL40-63/DA40	HMBSZ-DL40-63/DA40	
For drives		DGPL-40	DGPL-50	
			DGPL-63	
Syst	em type	Duo 40	Duo 63	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Internet
1	1	566 885	566 885	115
		HMIW-E05/E07	HMIW-E05/E07	
2	1	566 876	566 876	83
		HMVZ-9	HMVZ-9	
3	31)	566 877	566 877	115
		HMIZW-E05/E07-DL40/63	HMIZW-E05/E07-DL40/63	
4	12)	IGUS E2 medium 2400.05.100.0 and 211 or	IGUS E2 medium 2400.05.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{\text{O}}\xspace/n_T2$	ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{O/n_T2}$	
5	1	IGUS E2 medium 2050.ZB or	IGUS E2 medium 2050.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	
4	1 ²⁾	IGUS E2 medium 2400.07.100.0 and 211 or	IGUS E2 medium 2400.07.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.75-01-77 and TS $\ensuremath{\text{O/n_T2}}$	ENERGY CHAIN MC 0320.75-01-77 and TS $\ensuremath{O/n_T2}$	
5	2	IGUS E2 medium 2070.ZB or	IGUS E2 medium 2070.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	

The energy chain must be supported at least every 500 mm beyond the flexible bend. Increase the quantity accordingly if necessary.
Length depends on the stroke of the drive

Linear gantries Z modules

Mono/duo system Linear drives DGC





Parts lis	st			
Туре		HMBSZ-DL40-63/DA40	HMBSZ-DL40-63/DA40	
For drives		DGC-40	DGC-50	
			DGC-63	
Syst	em type	Duo 40	Duo 63	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Internet
1	1	566 885	566 885	115
		HMIW-E05/E07	HMIW-E05/E07	
2	1	566 876	566 876	83
		HMVZ-9	HMVZ-9	
3	31)	566 877	566 877	115
		HMIZW-E05/E07-DL40/63	HMIZW-E05/E07-DL40/63	
4	12)	IGUS E2 medium 2400.05.100.0 and 211 or	IGUS E2 medium 2400.05.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{\text{O}}\xspace/n_T^2$	ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{O/n_T2}$	
5	1	IGUS E2 medium 2050.ZB or	IGUS E2 medium 2050.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	
4	12)	IGUS E2 medium 240.07.100.0 and 211 or	IGUS E2 medium 240.07.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.75-01-77 and TS $\ensuremath{\text{O}}\xspace/n_T2$	ENERGY CHAIN MC 0320.75-01-77 and TS $0/n_{T}2$	
5	2	IGUS E2 medium 2070.ZB or	IGUS E2 medium 2070.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	

The energy chain must be supported at least every 500 mm beyond the flexible bend. Increase the quantity accordingly if necessary.
Length depends on the stroke of the drive

Mono/duo system Cantilever axes DGEA





Parts lis	st							
Туре		HMBSZ-DGEA-1	HMBSZ-DGEA-2	HMBSZ-DGEA-3	HMBSZ-DGEA-4	HMBSZ-DL40-63/DA40		
For	drives	DGEA-18	DGEA-25	DGEA-25	DGEA-40	DGEA-40		
System type		Mono 25 Duo 25 Duo 40 Mono 25 Duo 25 Duo 40			Duo 40	Duo 63	→ Page/	
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet	
1	1	539 374	539 375	539 377	539 377	566 876	83	
		HMVZ-3	HMVZ-4	HMVZ-6	HMVZ-6	HMVZ-9		
2	1	539 370	539 371	539 371	566 895	566 877	115	
		HMIZF-E03-DA18	HMIZF-E03-DA25	HMIZF-E03-DA25	HMIZF-E03/E05/E07-DA40	HMIZW-E05/E07-DL40/63		
3	11)		IGUS E2 medium 240.05.100.0 and 211 or ENERGY CHAIN MC 0320.55-01-77 and TS O/nT2					
4	1	IGUS E2 medium 20 ENERGY CHAIN MC F	IGUS E2 medium 2050.ZB or					
3	11)		, 0.07.100.0 and 211	or			-	
		ENERGY CHAIN MC C	320.75-01-77 and T	S 0/n _T 2				
4	2	IGUS E2 medium 20	70.ZB or				-	
		ENERGY CHAIN MC F	A/MA					

1) Length depends on the stroke of the drive
Linear gantries Z modules

Mono/duo system Spindle axes DGE





Parts lis	st						
Туре		HMBSZ-DGE-1	HMBSZ-DGE-2	HMBSZ-DGE-3	HMBSZ-DL40-63/DA40		
For	drives	DGE-25-SP	DGE-40-SP	DGE-40-SP	DGE-63-SP		
Syst	em type	Mono 40	Duo 25	Duo 40	Duo 63		
		Duo 25				→ Page/	
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet	
1	1	539 374	539 375	539 377	566 876	83	
		HMVZ-3	HMVZ-4	HMVZ-6	HMVZ-9		
2	1	566 885					
		HMIW-E05/E07					
3	31)	-	-	-	566 877	115	
					HMIZW-E05/E07-DL40/63		
4	12)	IGUS E2 medium 240.05.100.0 and 211 or					
		ENERGY CHAIN MC 0320.55-0	1-77 and TS O/n _T 2				
5	1	IGUS E2 medium 2050.ZB or				-	
		ENERGY CHAIN MC FA/MA					
4	1 ²⁾	IGUS E2 medium 240.07.100.0 and 211 or					
		ENERGY CHAIN MC 0320.75-0	1-77 and TS O/n _T 2				
5	2	IGUS E2 medium 2070.ZB or				-	
		ENERGY CHAIN MC FA/MA					

The energy chain must be supported at least every 500 mm beyond the flexible bend. Increase the quantity accordingly if necessary.
Length depends on the stroke of the drive

Key features

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Application



Three-dimensional gantries Product range overview

Selection aid									
System type		Mono 25	Mono 40	Duo 25		Duo 40		Duo 63	
^z	7 Y	\langle	~~		\langle			1	
X-axis		DGE-25-ZR	DGE-40-ZR	DGE-25-ZR	DGE-40-ZR	DGE-40-ZR	DGE-63-ZR	DGE-63-ZR	
Drive type		Electric	502 10 ER	502 29 2	502 10 EK	DOL TO LIK	5 62 65 2K	502 09 21	
Options			or roller guide						
<u>.</u>		Ū	0						
Y-axis		DG25	DG40	DG25		DG40		DG50/63	
		C L	S.				5		
Drive type		Pneumatic ar							
Options		Spindle or too	othed belt axis						
Z-axis		DGSL-12	DGSL-16		DGSL-20	DGSL-25	DGPL-40	DGPL-50	
		SLT-16	SLT-20		SLT-25	HMP-25	DGC-40	DGPL-63	
			HMP-16		HMP-20		HMP-32	DGC-50	
								DGC-63	
Drive type		Pneumatic							
Options		-	Intermediate	position with HMP	Intermediate position with HMP Intermedia		Intermediate po	te position with HMP	
Z-axis		DGEA-18	DGEA-18		DGEA-25	DGEA-25	DGEA-40	DGEA-40	
			DGE-25-SP-K	=	DGE-40-SP-KF	DGE-40-SP-KF	DGE-40-SP-KF	DGE-63-SP-KF	
Drive type		Electric	1						
Options		-	Spindle or too	othed belt axis	Spindle or toothed belt axis		Spindle or tooth	ned belt axis	
Effective load [kg]									
	1								
	2								
	3	-							
	4	-							
	6	-		-					
	10	-		-	-				
	15	-		-	-	-			
	25	-		-	-	-	-		
	25							_	

X-axis				
System type	e	Mono 25	Mono 40	Duo 25
٨	>	\triangleleft		
Electric		Туре		
drives				
DGE-25	-ZR-KF	HMBSX-RP/FP-25-1	HMBSX-RP/FP-25-1	HMBSX-RP/FP-25-1
		→ 46	→ 46	→ 46
	-ZR-RF	HMBSX-RP/FP-25-2	HMBSX-RP/FP-25-2	HMBSX-RP/FP-25-2
		→ 46	→ 46	→ 46
DGE-40	-ZR-KF	_	HMBSX-RP/FP-40-1	HMBSX-RP/FP-40-1
			→ 46	→ 46
	-ZR-RF	-	HMBSX-RP/FP-40-2	HMBSX-RP/FP-40-2
			→ 46	→ 46

Selection example:

,	ngineering produced the drive combination:	aids for t	e drive type in the selection he X, Y or Z-axis. The associ- s list can be found on the page.	installati	ssary basic, connecting and on components can be found rts list on the specified page.	Step 3 Technical data on the basic, connect- ing and installation components can be found on the specified pages. Further accessories for the selected drives, for example proximity sensors,
X-axis:	DGE-40-ZR-KF	X-axis:	HMBSX-RP/FP-40-1 → 46	X-axis:	HMBSX-RP/FP-40-1	centring sleeves, etc. are listed in the documentation for the drives.
Y-axis:	Mono 40 system with DGC-40	Y-axis:	HMBSY-RP/FP-M40-2 → 48	Y-axis:	HMBSY-RP/FP-M40-2	
Z-axis:	HMP-16	Z-axis:	HMBSZ-HMP-4 ➔ 54	Z-axis:	HMBSZ-HMP-4	

X-axis			
System type	е	Duo 40	Duo 63
٨	>		
Electric		Туре	
drives			
DGE-40	-ZR-KF	HMBSX-RP/FP-40-1	-
		→ 46	
	-ZR-RF	HMBSX-RP/FP-40-2	-
		→ 46	
DGE-63	-ZR-KF	HMBSX-RP/FP-63-1	HMBSX-RP/FP-63-3
		→ 47	→ 47
	-ZR-RF	HMBSX-RP/FP-63-2	-
		→ 47	

Y-axis

DGE-40

-SP-KF

-ZR-KF -ZR-RF

Y-axis			
System type	Mono 25	Mono 40	Duo 25
Pneumatic	Туре		
drives			
DGPL-25	HMBSY-RP/FP-M25-1	-	HMBSY-RP/FP-D25-1
	→ 48		→ 49
DGC-25	HMBSY-RP/FP-M25-2	-	HMBSY-RP/FP-D25-2
	→ 48		→ 49
DGPL-40	-	HMBSY-RP/FP-M40-1	_
		→ 48	
DGC-40	-	HMBSY-RP/FP-M40-2	-
		→ 48	
Electric	Туре		
drives			
DGE-25 -SP-KF	HMBSY-RP/FP-M25-1	-	HMBSY-RP/FP-D25-1
-ZR-KF	→ 48		→ 49
-ZR-RF			

HMBSY-RP/FP-M40-1

→ 48

_

Y-axis			
System typ	be	Duo 40	Duo 63
K	7		
Pneumatic	Ĉ	Туре	
drives			
DGPL-40		HMBSY-RP/FP-D40-1 → 49	-
DGC-40		HMBSY-RP/FP-D40-2 → 49	-
DGPL-50		-	HMBSY-RP/FP-D50/63
DGPL-63			→ 50
DGC-50		-	HMBSY-RP/FP-D50-2 → 50
DGC-63		-	HMBSY-RP/FP-D63-2 → 51
Electric drives		Туре	
DGE-40	-SP-KF -ZR-KF -ZR-RF	HMBSY-RP/FP-D40-1 → 49	-
DGE-63	-SP-KF -ZR-KF	-	HMBSY-RP/FP-D50/63
	-ZR-RF -ZR-RF		→ 50

Z-axis			
System type	Mono 25	Mono 40	Duo 25
Ĵ	×		
Pneumatic	Туре	-	
drives	.),, -		
DGSL-12	HMBSZ-DGSL-7 → 52	-	-
DGSL-16	-	HMBSZ-DGSL-7 → 52	HMBSZ-DGSL-7 → 52
DGSL-20	-	-	HMBSZ-DGSL-8 → 52
DGSL-25	-	-	-
SLT-16	HMBSZ-SLT-7	_	
56 10	→ 53		
SLT-20	-	HMBSZ-SLT-7 → 53	HMBSZ-SLT-7 → 53
SLT-25	-	-	HMBSZ-SLT-7 → 53
HMP-16	-	HMBSZ-HMP-4 → 54	HMBSZ-HMP-4 → 54
HMP-20	-	-	HMBSZ-HMP-5 → 54
HMP-25	-	-	-
Electric	Туре		
drives			
DGEA-18	HMBSZ-DGEA-1 → 57	HMBSZ-DGEA-1 → 57	HMBSZ-DGEA-1 → 57
DGEA-25	-	-	HMBSZ-DGEA-2 → 57
DGE-25-SP-KF	-	HMBSZ-DGE-1 → 58	HMBSZ-DGE-1 → 58
DGE-40-SP-KF	-	-	HMBSZ-DGE-2 → 58



Z-axis		
System type	Duo 40	Duo 63
Ĵ		
Pneumatic	Туре	
drives		
DGSL-25	HMBSZ-DGSL-8	-
	→ 52	
DGPL-40	HMBSZ-DL40-63/DA40	-
	→ 55	
DGPL-50	-	HMBSZ-DL40-63/DA40
DGPL-63		→ 55
DGC-40	HMBSZ-DL40-63/DA40 → 56	-
DGC-50	-	HMBSZ-DL40-63/DA40
DGC-63		→ 56
HMP-25	HMBSZ-HMP-6 → 54	-
HMP-32	HMBSZ-HMP-6 → 54	-
Electric	Туре	
drives	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
DGEA-25	HMBSZ-DGEA-3 → 57	-
DGEA-40	HMBSZ-DGEA-4	HMBSZ-DL40-63/DA40
	→ 57	→ 57
DGE-40-SP-KF	HMBSZ-DGE-3 → 58	-
DGE-63-SP-KF	-	HMBSZ-DL40-63/DA40 → 58

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Parts lis	st					
Type HMBS		HMBSX-RP/FP-25-1	HMBSX-RP/FP-25-2	HMBSX-RP/FP-40-1	HMBSX-RP/FP-40-2	
For	drives	DGE-25-ZR-KF	DGE-25-ZR-RF	DGE-40-ZR-KF	DGE-40-ZR-RF	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	2	539 651	539 652	540 325	539 653	80
		HMVW-DL25	HMVS-RF25	HMVW-DL40	HMVS-RF40	
2	21)	539 654	539 654	539 654	539 654	110
		HMIXB-RP/FP	HMIXB-RP/FP	HMIXB-RP/FP	HMIXB-RP/FP	
3	12)	539 379	539 379	539 379	539 379	116
		HMIA-E07	HMIA-E07	HMIA-E07	HMIA-E07	
4	2 ³⁾	150 736	150 736	-	-	mup
		MUP-18/25	MUP-18/25			
	1 ³⁾	-	-	150 738	150 738	mup
				MUP-40	MUP-40	
5	12)	IGUS E2 medium 2400.07.10	0.0 and 211 or			-
	ENERGY CHAIN MC 0320.75-01 and TS $O/n_T 2$					
6	2	IGUS E2 medium 2070.ZB or				-
		ENERGY CHAIN MC FA/MA				

Quantity with stroke ₄₅00 mm. With stroke > 500 mm, an installation kit HMIXB-RP/FP must be additionally ordered per 500 mm stroke or part thereof.
Length depends on the stroke of the drive
Every 500 mm per axis



Parts li	st				
Туре		HMBSX-RP/FP-63-1	HMBSX-RP/FP-63-2	HMBSX-RP/FP-63-3	
For	drives	DGE-63-ZR-KF	DGE-63-ZR-RF	DGE-63-ZR-KF	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	2	566 897	566 898	566 890	80
		HMVW-DL-63-1	HMVS-RF63	HMVW-DL-63-2	
2	1	566 896	566 896	566 891	110
		HMIXF-RP/FP-2	HMIXF-RP/FP-2	HMIX-RP/FP-E07/E10	
3	41)	150 800	150 800	150 800	mup
		MUP-63	MUP-63	MUP-63	
4	2 ²⁾	566 893	566 893	566 893	110
		HMIXB-RP/FP-2	HMIXB-RP/FP-2	HMIXB-RP/FP-2	
5	1 ³⁾	539 379	539 379	539 379	116
		HMIA-E07	HMIA-E07	HMIA-E07	
5	13)	-	-	566 894	116
				HMIA-E10	
6	13)	IGUS E2 medium 2400.07.10	0.0 and 211 or		-
		ENERGY CHAIN MC 0320.75-0	1 and TS O/n _T 2		
7	2	IGUS E2 medium 2070.ZB or			-
		ENERGY CHAIN MC FA/MA			
6	1 ³⁾	-		IGUS E2 medium 2400.10.100.0 and 211 or	-
				ENERGY CHAIN MC 0320.105-01 and TS $\ensuremath{\text{O}}\xspace/n_T2$	
7	2	-		IGUS E2 medium 2100.ZB or	-
				ENERGY CHAIN MC FA/MA	

Quantity with stroke *s*[500 mm. With stroke > 500 mm, two central supports MUP must be additionally ordered per 500 mm stroke or part thereof.
Quantity with stroke *s*[1,000 mm. With stroke > 1,000 mm, an installation kit HMIXB-RP/FP must be additionally ordered per 1,000 mm stroke or part thereof.
Length depends on the stroke of the drive



Parts li	st						
Туре		HMBSY-RP/FP-M25-1	HMBSY-RP/FP-M25-2	HMBSY-RP/FP-M40-1	HMBSY-RP/FP-M40-2		
For	drives	DGE-25-SP-KF	DGC-25	DGE-40-SP-KF	DGC-40		
		DGE-25-ZR-KF		DGE-40-ZR-KF			
		DGE-25-ZR-RF		DGE-40-ZR-RF			
		DGPL-25		DGPL-40			
Syst	em type	Mono 25		Mono 40	· ·	→ Page/	
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet	
1	2	539 657	539 657	539 657	539 657	81	
		HMVV-RP/FP	HMVV-RP/FP	HMVV-RP/FP	HMVV-RP/FP		
2	1	539 658	539 658	539 658	539 658	81	
		HMIXF-RP/FP	HMIXF-RP/FP	HMIXF-RP/FP	HMIXF-RP/FP		
3	11)	539 379	539 379	539 379	539 379	116	
		HMIA-E07	HMIA-E07	HMIA-E07	HMIA-E07		
4	2 ³⁾	539 656	539 656	539 656	539 656	82	
		HMVM-RP/FP-DL25/40	HMVM-RP/FP-DL25/40	HMVM-RP/FP-DL25/40	HMVM-RP/FP-DL25/40		
5	1	539 368	539 368	539 369	539 369	84	
		HMVS-DL25	HMVS-DL25	HMVS-DL40	HMVS-DL40		
6	1	539 659	539 659	539 660	539 660	113	
		HMIYF-RF/DL25	HMIYF-RF/DL25	HMIYF-RF/DL40	HMIYF-RF/DL40		
7	2 ²⁾	150 736	-	-	-	mup	
		MUP-18/25					
	1 ²⁾	-	531 753	-	531 755	muc	
			MUC-25		MUC-40		
	1 ²⁾	-	-	150 738	-	mup	
				MUP-40			
8	11)	IGUS E2 medium 2400.07.100.0 and 211 or					
		ENERGY CHAIN MC 0320.75-01 and TS O/nT2					
9	2	IGUS E2 medium 2070.ZB or				-	
		ENERGY CHAIN MC FA/MA					

Length depends on the stroke of the drive
Per basic kit HMVM-RP/FP-DL25/40
Quantity with stroke ₄₯00 mm. With stroke > 500 mm, a basic kit HMVM-RP/FP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.



Parts li	st					
Туре		HMBSY-RP/FP-D25-1	HMBSY-RP/FP-D25-2	HMBSY-RP/FP-D40-1	HMBSY-RP/FP-D40-2	
For	drives	DGE-25-SP-KF	DGC-25	DGE-40-SP-KF	DGC-40	
		DGE-25-ZR-KF		DGE-40-ZR-KF		
		DGE-25-ZR-RF		DGE-40-ZR-RF		
		DGPL-25		DGPL-40		
Sys	tem type	Duo 25		Duo 40		→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	2	539 657	539 657	539 657	539 657	81
		HMVV-RP/FP	HMVV-RP/FP	HMVV-RP/FP	HMVV-RP/FP	
2	1	539 658	539 658	539 658	539 658	81
		HMIXF-RP/FP	HMIXF-RP/FP	HMIXF-RP/FP	HMIXF-RP/FP	
3	11)	539 379	539 379	539 379	539 379	116
		HMIA-E07	HMIA-E07	HMIA-E07	HMIA-E07	
4	2 ³⁾	539 655	539 655	539 655	539 655	82
		HMVD-RP/FP-DL25/40	HMVD-RP/FP-DL25/40	HMVD-RP/FP-DL25/40	HMVD-RP/FP-DL25/40	
5	1	539 368	539 368	539 369	539 369	84
		HMVS-DL25	HMVS-DL25	HMVS-DL40	HMVS-DL40	
6	1	539 659	539 659	539 660	539 660	113
		HMIYF-RF/DL25	HMIYF-RF/DL25	HMIYF-RF/DL40	HMIYF-RF/DL40	
7	4 ²⁾	150 736	-	-	-	mup
		MUP-18/25				
	2	-	531 753	-	531 755	muc
			MUC-25		MUC-40	
8	11)	IGUS E2 medium 240.07.1	00.0 and 211 or	- 1	- 1	-
		ENERGY CHAIN MC 0320.75	-01 and TS O/n _T 2			
9	2	IGUS E2 medium 2070.ZB o	Dr			-
		ENERGY CHAIN MC FA/MA				

Length depends on the stroke of the drive
Per basic kit HMVD-RP/FP-DL25/40
Quantity with stroke ≤∫500 mm. With stroke > 500 mm, a basic kit HMVD-RP/FP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.



Parts lis	st			
Туре		HMBSY-RP/FP-D50/63	HMBSY-RP/FP-D50-2	
For	drives	DGPL-50	DGC-50	
		DGPL-63		
		DGE-63-SP-KF		
		DGE-63-ZR-KF		
		DGE-63-ZR-RF		
Syst	em type	Duo 63		→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Internet
1	21)	566 880	566 880	82
		HMVD-RP/FP-DL63	HMVD-RP/FP-DL63	
2	4 ²⁾	566 878	-	84
		HMVA-63		
2	4 ³⁾	-	531 756	muc
			MUC-50	
3	1	566 883	566 883	84
		HMVS-DL63	HMVS-DL63	
4	1	566 889	566 889	114
		HMIY-RP/FP-E07	HMIY-RP/FP-E07	
5	14)	539 379	539 379	116
		HMIA-E07	HMIA-E07	
6	14)	IGUS E2 medium 240.07.100.0 and 211 or		-
		ENERGY CHAIN MC 0320.75-01 and TS $\ensuremath{\text{O}}\xspace/n_{\ensuremath{\text{T}}\xspace}^2$		
7	2	IGUS E2 medium 2070.ZB or		-
		ENERGY CHAIN MC FA/MA		
-	2	175 958		62
		HMBS-80/80		
-	1 ⁵⁾	566 892		86
		HMVD-DL40/63		

Quantity with stroke 4 1,000 mm. With stroke > 1,000 mm, a basic kit HMVD-RP/FP-DL63 must be additionally ordered per 1,000 mm stroke or part thereof. 1)

Quantity with stroke \leq [],000 mm. With stroke > 1,000 mm, two adapter kits HMWA-63 must be additionally ordered per 1,000 mm stroke or part thereof. Quantity with stroke \leq],000 mm. With stroke > 1,000 mm, two central supports MUC-50 must be additionally ordered per 1,000 mm stroke or part thereof. Length depends on the stroke of the drive Quantity 0 with stroke \leq []:000 mm. With stroke > 500 mm, a reinforcing plate HMVD-DL must be ordered.

2) 3) 4) 5)

Ζ



Parts lis	st		
Туре		HMBSY-RP/FP-D63-2	
For	drives	DGC-63	
Syst	em type	Duo 63	→ Page/
ltem	Pieces	Part No. Type	Internet
1	21)	566 880	82
		HMVD-RP/FP-DL63	
2	42)	531 757	muc
		MUC-63	
3	1 ³⁾	566 883	84
		HMVS-DL63	
4	1	566 889	114
		HMIY-RP/FP-E07	
5	14)	539 379	116
		HMIA-E07	
6	14)	IGUS E2 medium 240.07.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.75-01 and TS O/n _T 2	
7	2	IGUS E2 medium 2070.ZB or	-
		ENERGY CHAIN MC FA/MA	
-	2	175 958	62
		HMBS-80/80	
-	15)	566 892	86
		HMVD-DL40/63	

1) Quantity with stroke 4 🗍 ,000 mm. With stroke > 1,000 mm, a basic kit HMVD-RP/FP-DL63 must be additionally ordered per 1,000 mm stroke or part thereof.

2) 3) Quantity with stroke \neq 1,000 mm. With stroke > 1,000 mm, two adapter kits HMVA-63 must be additionally ordered per 1,000 mm stroke or part thereof. Quantity with stroke \neq 1,000 mm. With stroke > 1,000 mm, two central supports MUC-50 must be additionally ordered per 1,000 mm stroke or part thereof.

4) 5) Length depends on the stroke of the drive

Quantity 0 with stroke < 300 mm. With stroke > 500 mm, a reinforcing plate HMVD-DL must be ordered.

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Mono/duo system Mini slides DGSL





Parts lis	st					
Туре		HMBSZ-DGSL-7		HMBSZ-DGSL-8		
For drives DGSL-12		DGSL-12	DGSL-12 DGSL-16		DGSL-25	
Syst	em type	Mono 25 Mono 40	Duo 25	Duo 40		
			Duo 25			→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 373	539 373	539 373	539 373	83
		HMVZ-2	HMVZ-2	HMVZ-2	HMVZ-2	
2	1	192 289	192 289	192 290	192 290	102
		MKRS-16,5-B	MKRS-16,5-B	MKRS-23-B	MKRS-23-B	
		548 803	548 803	548 804	548 804	71
		ZBV-M5-7	ZBV-M5-7	ZBV-M5-9	ZBV-M5-9	
5	1 ¹⁾	177 566	177 566	177 567	177 567	94
		MKR-16,5-PG-16	MKR-16,5-PG-16	MKR-23-PG-21	MKR-23-PG-21	
6	1	192 289	192 289	192 290	192 290	102
		MKRS-16,5-B	MKRS-16,5-B	MKRS-23-B	MKRS-23-B	

1) Length depends on the stroke of the drive (scope of delivery: 1m)



Parts li	st				
Туре		HMBSZ-SLT-7			
For	drives	SLT-16	SLT-20	SLT-25	
Sys	tem type	Mono 25	Mono 40	Duo 25	
			Duo 25		→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 373	539 373	539 373	83
		HMVZ-2	HMVZ-2	HMVZ-2	
2	1	193 124	193 124	193 124	103
		HMZAS-PG-21	HMZAS-PG-21	HMZAS-PG-21	
3	1	177 599	177 599	177 599	100
		MKM-PG-21	MKM-PG-21	MKM-PG-21	
4	1	177 572	177 572	177 572	96
		MKRV-23-PG-21	MKRV-23-PG-21	MKRV-23-PG-21	
5	11)	177 567	177 567	177 567	94
		MKR-23-PG-21	MKR-23-PG-21	MKR-23-PG-21	
6	1	192 290	192 290	192 290	102
		MKRS-23-B	MKRS-23-B	MKRS-23-B	

4 3 2

1) Length depends on the stroke of the drive (scope of delivery: 1m)

Mono/duo system Linear modules HMP





Parts lis	st				
Туре		HMBSZ-HMP-4	HMBSZ-HMP-5	HMBSZ-HMP-6	
For drives		HMP-16	HMP-20	HMP-25/HMP-32	
Syst	tem type	Mono 40	Duo 25	Duo 40	
		Duo 25			→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 374	539 374	539 377	83
		HMVZ-3	HMVZ-3	HMVZ-6	
2	1	177 577	177 578	177 578	97
		MKRL-23-PG-21	MKRL-29-PG-29	MKRL-29-PG-29	
3	2	177 599	177 600	177 600	100
		MKM-PG-21	MKM-PG-29	MKM-PG-29	
4	11)	177 567	177 568	177 568	94
		MKR-23-PG-21	MKR-29-PG-29	MKR-29-PG-29	
5	2	192 290	192 291	192 291	102
		MKRS-23-B	MKRS-29-B	MKRS-29-B	
6	1	177 572	177 573	177 573	96
		MKRV-23-PG-21	MKRV-29-PG-29	MKRV-29-PG-29	
7	1	193 124	177 603	177 603	103
		HMZAS-PG-21	HMZAS-PG-29	HMZAS-PG-29	

1) Length depends on the stroke of the drive (scope of delivery: 1m)

Mono/duo system Linear drives DGPL





Parts lis	st			
Туре		HMBSZ-DL40-63/DA40	HMBSZ-DL40-63/DA40	
For	drives	DGPL-40	DGPL-50	
			DGPL-63	
Syst	em type	Duo 40	Duo 63	→ Page/
Item Pieces Part No. Type Part		Part No. Type	Part No. Type	Internet
1	1	566 885	566 885	115
		HMIW-E05/E07	HMIW-E05/E07	
2	1	566 876	566 876	83
		HMVZ-9	HMVZ-9	
3	31)	566 877	566 877	115
		HMIZW-E05/E07-DL40/63	HMIZW-E05/E07-DL40/63	
4	12)	IGUS E2 medium 2400.05.100.0 and 211 or	IGUS E2 medium 2400.05.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{\text{O/n_T}2}$	ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{O/n_T2}$	
5	1	IGUS E2 medium 2050.ZB or	IGUS E2 medium 2050.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	
4	1 ²⁾	IGUS E2 medium 2400.07.100.0 and 211 or	IGUS E2 medium 2400.07.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.75-01-77 and TS $\ensuremath{\text{O}}\xspace/n_T2$	ENERGY CHAIN MC 0320.75-01-77 and TS $0/n_{\rm T}2$	
5	2	IGUS E2 medium 2070.ZB or	IGUS E2 medium 2070.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	

The energy chain must be supported at least every 500 mm beyond the flexible bend. Increase the quantity accordingly if necessary.
Length depends on the stroke of the drive

Mono/duo system Linear drives DGC





Parts lis	st			
Туре		HMBSZ-DL40-63/DA40	HMBSZ-DL40-63/DA40	
For	drives	DGC-40	DGC-50	
			DGC-63	
Syst	em type	Duo 40	Duo 63	→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Internet
1	1	566 885	566 885	115
		HMIW-E05/E07	HMIW-E05/E07	
2	1	566 876	566 876	83
		HMVZ-9	HMVZ-9	
3	31)	566 877	566 877	115
		HMIZW-E05/E07-DL40/63	HMIZW-E05/E07-DL40/63	
4	12)	IGUS E2 medium 2400.05.100.0 and 211 or	IGUS E2 medium 2400.05.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{\text{O}/\text{n}_\text{T}}\xspace^2$	ENERGY CHAIN MC 0320.55-01-77 and TS $\ensuremath{O/n_T2}$	
5	1	IGUS E2 medium 2050.ZB or	IGUS E2 medium 2050.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	
4	1 ²⁾	IGUS E2 medium 240.07.100.0 and 211 or	IGUS E2 medium 240.07.100.0 and 211 or	-
		ENERGY CHAIN MC 0320.75-01-77 and TS $\ensuremath{\text{O}}\xspace/n_T2$	ENERGY CHAIN MC 0320.75-01-77 and TS $\ensuremath{O/n_T2}$	
5	2	IGUS E2 medium 2070.ZB or	IGUS E2 medium 2070.ZB or	-
		ENERGY CHAIN MC FA/MA	ENERGY CHAIN MC FA/MA	

The energy chain must be supported at least every 500 mm beyond the flexible bend. Increase the quantity accordingly if necessary.
Length depends on the stroke of the drive





Parts lis	t						
Туре		HMBSZ-DGEA-1	HMBSZ-DGEA-2	HMBSZ-DGEA-3	HMBSZ-DGEA-4	HMBSZ-DL40-63/DA40	
For c	lrives	DGEA-18	DGEA-25	DGEA-25	DGEA-40	DGEA-40	
Syste	em type	Mono 25	Duo 25	Duo 40	Duo 40	Duo 63	
		Mono 40					
		Duo 25					→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 374	539 375	539 377	539 377	566 876	83
		HMVZ-3	HMVZ-4	HMVZ-6	HMVZ-6	HMVZ-9	
2	1	539 370	539 371	539 371	566 895	566 877	115
		HMIZF-E03-DA18	HMIZF-E03-DA25	HMIZF-E03-DA25	HMIZF-E03/E05/E07-DA40	HMIZW-E05/E07-DL40/63	
3	11)	IGUS E2 medium 24	00.05.100.0 and 21	1 or			-
		ENERGY CHAIN MC C	320.55-01-77 and TS	5 O/n _T 2			
4	1	IGUS E2 medium 20)50.ZB or				-
		ENERGY CHAIN MC F	A/MA				
3	11)	IGUS E2 medium 24	400.07.100.0 and 21	1 or			-
		ENERGY CHAIN MC C	320.75-01-77 and TS	5 O/n _T 2			
4	2	IGUS E2 medium 20)70.ZB or				-
		ENERGY CHAIN MC F	A/MA				

1) Length depends on the stroke of the drive

Mono/duo system Spindle axes DGE Ζſ Y 2 1 4 3 5

Parts lis	st					
Туре		HMBSZ-DGE-1	HMBSZ-DGE-2	HMBSZ-DGE-3	HMBSZ-DL40-63/DA40	
For drives		DGE-25-SP	DGE-40-SP	DGE-40-SP	DGE-40-SP	
					DGE-63-SP	
Syst	tem type	Mono 40	Duo 25	Duo 40	Duo 63	
		Duo 25				→ Page/
ltem	Pieces	Part No. Type	Part No. Type	Part No. Type	Part No. Type	Internet
1	1	539 374	539 375	539 377	566 876	83
		HMVZ-3	HMVZ-4	HMVZ-6	HMVZ-9	
2	1	566 885	566 885	566 885	566 885	115
		HMIW-E05/E07	HMIW-E05/E07	HMIW-E05/E07	HMIW-E05/E07	
3	31)	-	-	-	566 877	115
					HMIZW-E05/E07-DL40/63	
4	1 ²⁾	IGUS E2 medium 240.05.10	0.0 and 211 or			-
		ENERGY CHAIN MC 0320.55	-01-77 and TS O/n _T 2			
5	1	IGUS E2 medium 2050.ZB o	r			-
		ENERGY CHAIN MC FA/MA				
4	1 ²⁾	IGUS E2 medium 240.07.100.0 and 211 or				
		ENERGY CHAIN MC 0320.75	-01-77 and TS 0/n _T 2			
5	2	IGUS E2 medium 2070.ZB o	r			-
		ENERGY CHAIN MC FA/MA				

The energy chain must be supported at least every 500 mm beyond the flexible bend. Increase the quantity accordingly if necessary.
Length depends on the stroke of the drive

Basic components





- Wide range of variants
- Heavy-duty
- Functional
- Flexible

Basic components

Key features



Basic kits

Profile column HMBS With slot width of 8 mm for mounting connecting and basic kits.

Cover cap HMBSA

For covering the end faces of profile columns HMBS.

Connecting kit HMBSV

For connecting 2 to 3 profile columns HMBS.

Connecting kit HMBSW

For connecting two profile columns HMBS or profile columns with 40 mm slot width.

Basic kit HMBF-DB

For direct mounting of profile columns on a base plate or on a machine rack.

Connecting kit HMBWS

For connecting one profile column (with 40 mm slot width) to another profile column (with a slot width other than 40 mm).

Connecting kit HMBV-ND

Interface for connecting basic components to Festo drives.

Basic components Key features



Profile column HMBS

Scope of delivery: 1 column

Material: Aluminium Free of copper, PTFE and silicone







1 Mounting for slot nut type 8

Dimensions and ordering data

Dimensions and ordering u	ala						
Designation	B1	B2	B3	CRC ¹⁾	Part No.	Туре	PU ²⁾
Profile column	80	40	40	2	175 964	HMBS-80/40	1
	80	-	40		175 958	HMBS-80/80	1
	•	•	•				
Accessories (to be ordered s	eparately)						
Slot nut	-			2	186 567	HMBN-8-2M5	10

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit. For HMBS: specify the desired length in mm (L_{max.} = 6,000 mm).

Cover cap HMBSA

Scope of delivery: 1 cover, 1 plug

Material: Polyacetal Free of copper, PTFE and silicone



Dimensions and ordering data

Dimensions and ordering up					
Designation	Dimensions	CRC ¹⁾	Part No.	Туре	PU ²⁾
Cover cap	80x40	2	175 966	HMBSA-80/40	1
	80x80		175 965	HMBSA-80/80	1

1)

Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

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→ Internet: www.festo.com/catalogue/...

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Connecting kit HMBSV

Scope of delivery: 1 mounting plate, 16 screws, 8 slot nuts

Material: Aluminium Free of copper, PTFE and silicone





Dimensions and ordering	data						
Designation	B1	H1	L1	CRC ¹⁾	Part No.	Туре	PU ²⁾
Connecting kit	75	12	154	2	175 972	HMBSV	1
Accessories (for reorder)							
Slot nut	-			2	186 567	HMBN-8-2M5	10
Screw	_				-	M5x16	-

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Connecting kit HMBSW

Scope of delivery: 1 bracket, 16 screws, 8 slot nuts, 8 spacer rings, 2 cover caps

Material: Aluminium Cover cap: Polyacetal Free of copper, PTFE and silicone





Dimensions and ordering da	ata										
Designation	D1	H1	L1	L2	L3	L4	L5	CRC ¹⁾	Part No.	Туре	PU ²⁾
Connecting kit	M5	12	80	40	65	45	32.5	2	178 228	HMBSW	1
Accessories (for reorder)											
Slot nut	-							2	186 567	HMBN-8-2M5	10
Spacer ring	-							1	186 563	HMBRD	10
Screw	-								-	M5x16	-

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

63

Basic kit HMBF-DB

Scope of delivery: 1 bracket, 16 screws, 4 slot nuts, 8 spacer rings, 2 cover caps

Material: Aluminium Cover cap: Polyacetal Free of copper, PTFE and silicone





Dimensions and ordering da	ata										
Designation	D1	H1	L1	L2	L3	L4	L5	CRC ¹⁾	Part No.	Туре	PU ²⁾
Basic kit	M5	12	80	40	65	45	32.5	2	175 951	HMBF-DB	1
	•			•							
Accessories (for reorder)											
Slot nut	-							2	186 567	HMBN-8-2M5	10
Spacer ring	-								186 563	HMBRD	10
Screw	-								-	M5x16	-

Corrosion resistance class 2 according to Festo standard 940 070 1)

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents. 2) Packaging unit.

Connecting kit HMBWS

Scope of delivery: 1 bracket

Material:

Aluminium Free of copper, PTFE and silicone





Dimensions and ordering d	ata															
Designation	D1	D2	D3	D4	H1	L1	L2	L3	L4	L5	T1	T2	CRC ¹⁾	Part No.	Туре	PU ²⁾
Connecting kit	9 ^{H7}	5.5	10	10 ^{H7}	12	80	40	65	45	32.5	2.1	5.5	2	189 486	HMBWS	1
Accessories (for reorder)																
Slot nut	-												2	186 567	HMBN-8-2M5	10
Screw	-													M5x16		-

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.



Connecting kit HMBV-ND

- for HMP
- for SLT with HMBK-WS and HMSV-34 ... 37

Scope of delivery: 1 bracket, 8 screws, 4 slot nuts, 4 spacer rings, 2 cover caps

Material: Anodised aluminium Free of copper, PTFE and silicone





Dimensions

Dimensions													
Designation	D1	D2	D3	D4	D5	H1	L1	L2	L3	L4	L5	T1	T2
	Ø	Ø	Ø	Ø									
	H7			H7				±0.1	±0.1	±0.1	±0.1	±0.1	
Connecting kit	9	5.5	10	10	M5	12	80	40	65	45	32.5	2.1	5.5

Ordering data			
Designation	CRC ¹⁾	Part No. Type	PU ²⁾
Connecting kit	2	175 967 HMBV-ND	1
Accessories (for reord	ler)		
Slot nuts	2	186 567 HMBN-8-2M5	10
Spacer rings		186 563 HMBRD	10
Screws		M5x16	-

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Connecting kit HMBV-ND-DL

- for DGPL-25/-32/-40/-50/-63



Scope of delivery: All individual parts required for mounting are included.

Material: Anodised aluminium Free of copper, PTFE and silicone



L	Connecting kit HMBV-ND-DL	3	Linear driv
2	Slot nut HMBN	4	Clip

D	i	m	e	n	S	i	0	n	5

Dimensions												
Designation	B1	D2	D3	D5	H1	L1	L2	L3	L4	L5	L6	T2
		Ø	Ø									
							±0.2	±0.2	±0.2			
Connecting kit	81	5.5	10	M5	12	80	40	65	52.5	21	12.5	5.5

Ordering data				
For \varnothing	CRC ¹⁾	Part No.	Туре	PU ²⁾
25	2	175 985	HMBV-ND-DL25	1
32		175 988	HMBV-ND-DL32	1
40		175 991	HMBV-ND-DL40	1
50		175 994	HMBV-ND-DL50	1
63		175 997	HMBV-ND-DL63	1

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Ordering data – Accessories (for reorder)

Ordering data – Accessori	es (for reorder)								
For Ø	25	32	40	50	63	CRC ¹⁾	Part No.	Туре	PU ²⁾
Slot nut	-	4	4	-	-	2	189 654	HMBN-5-M5	10
	-	-	-	4	4		189 655	HMBN-8-M5	10
	4	4	4	4	4		186 566	HMBN-8-2M5	10
Spacer rings	4	4	4	4	4		186 563	HMBRD	10
Central support	2	-	-	-	-		150 736	MUP-18/25	2
Screws	8	12	12	4	4		-	M5x16	-
	4	-	-	-	-	1	-	M5x20	-

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit. 1

Slot nut HMBN-5-M5

Material: Non-alloyed tempered steel Free of copper, PTFE and silicone





Slot nut HMBN-5-1M5

Material: Non-alloyed tempered steel Free of copper, PTFE and silicone





Slot nut HMBN-5-2M5

Material: Non-alloyed tempered steel Free of copper, PTFE and silicone





Dimensions and ordering data

Dimensions and ordering us	ala							
Туре	D1	L1	L2	L3	CRC ¹⁾	Part No.	Туре	PU ²⁾
HMBN-5-M5	M5	12	4	-	2	189 654	HMBN-5-M5	10
HMBN-5-1M5		14.5	7.25	-	2	547 264	HMBN-5-1M5	10
HMBN-5-2M5		27	-	12.5	2	186 566	HMBN-5-2M5	10

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Slot nut HMBN-8-M5

Material: Non-alloyed tempered steel Free of copper, PTFE and silicone





Slot nut HMBN-8-2M5

Material: Non-alloyed tempered steel Free of copper, PTFE and silicone

. . .





Dimensions and ordering da	ata							
Туре	D1	L1	L2	L3	CRC ¹⁾	Part No.	Туре	PU ²⁾
							71	
HMBN-8-M5	M5	22.5	6.25	-	2	189 655	HMBN-8-M5	10
HMBN-8-2M5		25	-	12.5		186 567	HMBN-8-2M5	10

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

1 - -

Spacer ring HMBRD

Material: Corrosion-resistant steel Free of copper, PTFE and silicone





D¹

Dimensions and ordering da	ata							
Туре	D1	D2	L1	CRC ¹⁾	Part No. T	Гуре	PU ²⁾	
	Ø	Ø						
	h8		±0.1					
HMBRD	10	5.3	6.5	2	186 563 H	IMBRD	10	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Cutting ring HMBRS

Material: Corrosion-resistant steel Free of copper, PTFE and silicone



5		D2
_	L1	

Dimensions and ordering da	ata						
Туре	D1	D2	L1	CRC ¹⁾	Part No.	Туре	PU ²⁾
	Ø	Ø					
	+0.04						
HMBRS	9.9	5.3	7	2	186 564	HMBRS	10

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Centring pin ZBS

Material: Corrosion-resistant steel Free of copper, PTFE and silicone





Dimensions and ordering da	ata					
Туре	B1	D1	CRC ¹⁾	Part No.	Туре	PU ²⁾
		Ø				
	-0.2	h8				
ZBS-2	5	2	2	525 273	ZBS-2	10
ZBS-5	5	5	2	150 928	ZBS-5	10

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Centring sleeve ZBH

Material: Corrosion-resistant steel Free of copper, PTFE and silicone



Dimensions and ordering da	ita					
Туре	B1	D1	D2	CRC ¹⁾	Part No. Type	PU ²⁾
		Ø	Ø			
	-0.2	h7				
ZBH-5	2.4	5	3.2	2	189 652 ZBH-5	10
ZBH-7	3	7	5.3	2	186 717 ZBH-7	10
ZBH-9	4	9	6.4	2	150 927 ZBH-9	10
ZBH-12	5	12	10.3 +0.1	2	189 653 ZBH-12	10

Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

→ Internet: www.festo.com/catalogue/...

2) Packaging unit.

Connector sleeve ZBV-M...

Material: Corrosion-resistant steel Free of copper, PTFE and silicone





Dimensions and ordering da	ata											
Туре	B1	B2	B3	D1	D2	D3	D4	⊅ =	CRC ¹⁾	Part No.	Туре	PU ²⁾
						Ø	Ø					
						h7	h7					
ZBV-M4-7	8.7	1.4+0.1	1.3±0.05	M4	M2.5	7	5	4	2	548 802	ZBV-M4-7	3
ZBV-M5-7	11	-	3+0.1	M5	M3	-	7	5.5	2	548 803	ZBV-M5-7	3
ZBV-M6-9	9.5	1.9 ^{+0.1}	1.6±0.05	M6	M3	9	7	5	2	548 804	ZBV-M6-9	3

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Connector sleeve ZBV

Material: Corrosion-resistant steel Free of copper, PTFE and silicone





Dimensions and ordering data

Dimensions and ordering us	ala								
Туре	B1	B2	D1	D2	D3	CRC ¹⁾	Part No.	Туре	PU ²⁾
			Ø	Ø	Ø				
			h7	H13	h7				
ZBV-9-7	3.4	1.5±0.05	7	5.5	9	2	548 805	ZBV-9-7	1
ZBV-12-9	4.5	2_0.1	9	6.4	12	2	548 806	ZBV-12-9	1

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.

Adapter plate HMAV-...-X

Universal dovetail profile for attaching a base or mounting plate to linear modules HMP

Material: Anodised aluminium Free of copper, PTFE and silicone





Dimensions and ordering da	ata						
Туре	Н	В	χ1)	CRC ²⁾	Part No.	Туре	PU ³⁾
HMAV-80-X	16	80		2	189 451	HMAV-80-X	1
HMAV-90-X	13	90		2	189 450	HMAV-90-X	1

 The length in mm must be quoted when ordering.
Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

3) Packaging unit.

Adapter kit HMSV HMSV-1 HMSV-3 HMSV-7 Material: Anodised aluminium Free of copper, PTFE and silicone

Dimensions and ordering data								
Туре	Length	CRC ¹⁾	Part No.	Туре	PU ²⁾			
HMSV-1	80	2	177 647	HMSV-1	1			
HMSV-3	100	2	177 649	HMSV-3	1			
HMSV-7	2x 60	2	177 653	HMSV-7	1			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

2) Packaging unit.


- Modular
- Functional
- Flexible

Connecting components Key features



Connecting kits

Basic kit

Kit that serves as the basis for the individual modules in a multi-axis system and as the interface to the surrounding machines.

Adapter kit

Kit for connecting drives to one another. Direct mounting or mounting via slot nuts.

Connecting kit For connecting drives and basic components.

Reinforcing kit

Primarily used to reinforce an existing connection. Also used to mount the support profile for energy chains.

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Mounting kit

For mounting accessories such as controllers on multi-axis systems.

Note -

The kits look different depending on their size and combination. They contain all of the holes and threads needed for mounting.

Connecting components Key features

Linear gantry

- 1 Components for mounting basic axes (basic kit)
- 2 Components for connecting the drives (adapter kit)
- 3 Components for mounting the drives along the Z-axis in gantry designs



Three-dimensional gantry

- 1 Components for mounting basic axes
- 2 Components for lateral mounting of an axis (adapter kit, reinforcing kit, basic kit)
- 3 Components for mounting the drives along the Z-axis in gantry designs



Connecting components Product range overview

Version	Brief description	→ Page/ Internet	Version	Brief description	→ Page/ Internet
Connecting kit HMBK-DB			Adapter kit HMVS-RF		
	 For pick & place For direct mounting of linear modules HMP 	78		 For three-dimensional gantries For connecting X-axes and Y-axes For toothed belt axis DGE-RF with roller guide Mounting interface for reinfor- cing kit HMVV and basic kit HMVM 	81
Connecting kit HMBK-ND			Reinforcing kit HMVV-RF		
	 For pick & place For direct mounting of linear modules HMP 	78		 For three-dimensional gantries For reinforcing the Y-axis Mounting interface for basic kit HMVM/HMVD, installation components, etc. 	81
Connecting kit HMBK-WS			Basic kit HMVM-LP, HMV	VD-LP	
Se se s	 For pick & place For dovetail mounting of linear modules HMP and mini slides SLT 	79	A	 For linear gantries For Y-axis For mono and duo systems Mounting interface for profiles, drives and displacement encoders 	82
Connecting kit HMVY			Basic kit HMVM-RP/FP, I		
	 For pick & place For connecting basic components and drives 	79		For three-dimensional gantries For Y-axis For mono and duo systems Mounting interface for drives	82
Adapter kit HMVW-DL			Basic kit HMVZ		
an an	 For three-dimensional gantries For connecting X-axes and Y-axes Mounting interface for reinfor- cing kit HMVV and basic kit HMVM/HMVD 	80	- Tartan - Andrew	 For linear and three-dimensional gantries For Z-axis For mono and duo systems Mounting interface for drives, installation components, etc. 	83

Connecting components Product range overview

Version	Brief description	→ Page/ Internet	Version	Brief description	→ Page/ Internet
Adapter kit HMVS-DL			Adjusting kit HMVE		
	 For linear and three-dimensional gantries For Z-axis For mono and duo systems Mounting interface for basic kit HMVZ 	84		 For linear gantries For aligning the Y-axis 	86
Adapter kit HMVA			Reinforcing plate HMVD-D	DL	
**************************************	 For linear and three-dimensional gantries For Z-axis For duo systems Mounting interface for drives 	84		 For three-dimensional gantries For reinforcing the Y-axis beyond a certain length 	86
Connecting plate HMV	0-POT				
	 For linear gantries For Z-axis Compensating component for compensating the difference in height between an axis and a displacement encoder 	85			
Connecting plate HMV	O-RF				
	 For linear gantries Compensating component for toothed belt axis DGE-RF for compensating the difference in height with the axes DGE-ZR-KF and DGE-SP-KF 	85			

Connecting components Technical data



Dimensions and orde	ring data			
Туре	CRC ¹⁾	Weight	Part No.	Туре
		[g]		
HMBK-DB	2	15	175 973	HMBK-DB

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Connecting kit HMBK-ND	• For pick & place	• For direct mounting of linear mod- ules HMP	Material: Non-alloyed tempered steel Free of copper, PTFE and silicone

Dimensions and order	ring data			
Туре	CRC ¹⁾	Weight	Part No.	Туре
		[g]		
HMBK-ND	2	62	175 970	HMBK-ND

1) Corrosion resistance class 2 according to Festo standard 940 070

Connecting components Technical data

Connecting kit HMBK-WS

• For pick & place

• For dovetail mounting of linear modules HMP and mini slides SLT



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Dimensions and ordering data											
Туре	B1	D1	H1	H2	L1	L2	CRC ¹⁾	Weight [g]	Part No.	Туре	
HMBK-WS	80	M5	15.5	7.5	97	92	2	453	175 975	HMBK-WS	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Connecting kit HMVY

• For pick & place

• For connecting basic components and drives

• Mounting accessories included in

Material: Anodised aluminium Free of copper, PTFE and silicone



Dimensions and ordering data

Dimensions and orde													
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре						
					[g]								
HMVY-1	80	12	160	2	410	539 968	HMVY-1						
HMVY-2	80	12	160		420	539 969	HMVY-2						
HMVY-3	80	12	240		620	539 970	HMVY-3						
HMVY-4	80	12	240		720	560 020	HMVY-4						

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Adapter kit HMVW-DL

- For three-dimensional gantries
- For connecting X-axes and Y-axes
- Mounting interface for reinforcing kit HMVV and basic kit HMVM/ HMVD
- Mounting accessories included in the scope of delivery



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Dimensions and ordering data H1 CRC¹⁾ Weight Β1 B2 L1 Part No. Туре Туре [g] HMVW-DL25 80 81 12 135 640 539 651 HMVW-DL25 2 HMVW-DL40 80 800 HMVW-DL40 81 12 167 540 325 HMVW-DL63-1 HMVW-DL63-1 80 230 566 897 100 12 1,250

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Mounting bracket HMVW-DL63-2

- For three-dimensional gantries • For connecting X-axes and Y-axes
- Mounting interface for profile column HMBS and installation kit нміх
- Mounting accessories included in the scope of delivery

Material: Anodised aluminium

Free of copper, PTFE and silicone





Dimensions and order	ring data									
Туре	B1	B2	H1	H2	L1	L2	CRC ¹⁾	Weight	Part No.	Туре
								[g]		
HMVW-DL63-2	159	19	355	113	308	120	2	5,700	566 890	HMVW-DL63-2

Corrosion resistance class 2 according to Festo standard 940 070 1) Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Technical data

Adapter kit

HMVS-RF

- For three-dimensional gantries
- For connecting X-axes and Y-axesFor toothed belt axis DGE-RF with
- Mounting interface for reinforcing kit HMVV and basic kit HMVM
- Mounting accessories included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

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Dimensions and order	imensions and ordering data												
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре						
					[g]								
HMVS-RF25	80	15	190	2	600	539 652	HMVS-RF25						
HMVS-RF40	80	15	300		930	539 653	HMVS-RF40						
HMVS-RF63	90	15	260		950	566 898	HMVS-RF63						

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Reinforcing kit HMVV-RP/FP

- For three-dimensional gantries
- For reinforcing the Y-axis
- Mounting interface for basic kit HMVM/HMVD, installation components, etc.
- Mounting accessories included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone





Dimensions and ordering data											
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре				
					[g]						
HMVV-RP/FP	100	15	127	2	400	539 657	HMVV-RP/FP				

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Basic kit HMVM-LP

HMVD-LP



- For Y-axis
- For mono and duo systems
- Mounting interface for profiles, drives and displacement encoders
- Mounting accessories included in the scope of delivery
- Material: Anodised aluminium Free of copper, PTFE and silicone

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Dimensions and ordering data

Dimensions and order	ing uutu								
For system type	B1	H1	H2	L1	L2	CRC ¹⁾	Weight	Part No.	Туре
							[g]		
Mono	80	15	8.5	280	14	2	830	539 972	HMVM-LP-DL25/40
Duo	80	15	8.5	480	14		1,320	539 971	HMVD-LP-DL25/40
Duo	160	19	-	525	-		5,800	566 879	HMVD-LP-DL63

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Basic kit HMVM-RP/FP HMVD-RP/FP



- For three-dimensional gantries • For Y-axis
- Mounting interface for drives
 - Mounting accessories included in
 - the scope of delivery
- Material: Anodised aluminium Free of copper, PTFE and silicone



Dimensions and ordering data

Dimensions and olde	aning uala								
For system type	B1	B2	H1	L1	L2	CRC ¹⁾	Weight	Part No.	Туре
							[g]		
Mono	80	64.5	15	200	145.5	2	600	539 656	HMVM-RP/FP-DL25/40
Duo	80	-	15	310	-		1,000	539 655	HMVD-RP/FP-DL25/40
Duo	160	-	19	525	-		4,300	566 880	HMVD-RP/FP-DL63

1) Corrosion resistance class 2 according to Festo standard 940 070

Connecting components Technical data

Basic kit

HMVZ



• For Z-axis

- Mounting interface for drives, installation components, etc.
- Mounting accessories and earthing kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone





Dimensions and ordering data											
Туре	B1	B2	H1	L1	L2	CRC ¹⁾	Weight	Part No.	Туре		
							[g]				
HMVZ-1						2	1,520	539 372	HMVZ-1		
HMVZ-2							1,510	539 373	HMVZ-2		
HMVZ-3	125	80	12	410	305		1,490	539 374	HMVZ-3		
HMVZ-4							1,450	539 375	HMVZ-4		
HMVZ-7							1,470	560 021	HMVZ-7		
HMVZ-5	167	80	12	422	342		2,080	539 376	HMVZ-5		
HMVZ-6	107	00	12	422			1,900	539 377	HMVZ-6		
HMVZ-8	300	_	15	590	_		7,300	566 875	HMVZ-8		
HMVZ-9	500	_	14		-		6,900	566 876	HMVZ-9		

Corrosion resistance class 2 according to Festo standard 940 070
 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Technical data

Adapter kit HMVS-DL

- For linear and three-dimensional
- gantries
 - For Z-axis • For mono and duo systems
- Mounting interface for basic kit HMVZ
- Mounting accessories and earthing kits included in the scope of delivery
- Material: Anodised aluminium Free of copper, PTFE and silicone

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Dimensions and ordering data

Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре				
					[g]						
HMVS-DL25	125	12	305	2	1,050	539 368	HMVS-DL25				
HMVS-DL40	167	12	342		1,800	539 369	HMVS-DL40				
HMVS-DL63	300	15	590		7,100	566 883	HMVS-DL63				

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Adapter kit HMVA

• For linear and three-dimensional gantries

• For Z-axis

- Mounting interface for drives
 - Mounting accessories included in the scope of delivery

Material:

Anodised aluminium Free of copper, PTFE and silicone





Dimensions and ordering data											
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре				
					[g]						
HMVA-63	100	15	155	2	600	566 878	HMVA-63				

1) Corrosion resistance class 2 according to Festo standard 940 070

Connecting components Technical data

Connecting plate HMVO-RF Connecting plate HMVO-POT





• For Z-axis



• Mounting accessories included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

HMVO-RF25

Compensating component for toothed belt axis DGE-RF to compensate for the difference in height with the axes DGE-ZR-KF and DGE-SP-KF

HMVO-POT

Compensating component for displacement encoder MLO-POT-TLF to compensate the difference in height with the linear drive DGPL-25/-40

D'

Dimensions and order	Dimensions and ordering data										
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре				
					[g]						
HMVO-RF25	25	5.5	80	2	30	539 362	HMVO-RF25				
HMVO-POT	15	7	68		20	539 973	HMVO-POT				

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Connecting components Technical data

Adjusting kit HMVE

- For linear gantries
- For aligning the Y-axis





Material: Galvanised steel Free of copper, PTFE and silicone

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Dimensions and ordering data

Dimensions and orde	illig uala						
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре
					[g]		
HMVE	19	30	100	2	150	566 884	HMVE

Corrosion resistance class 2 according to Festo standard 940 070 1)

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Reinforcing plate HMVD-DL

- For three-dimensional gantries • For reinforcing the Y-axis beyond a certain length
- Mounting accessories included in the scope of delivery

Material: Galvanised steel Free of copper, PTFE and silicone





Dimensions and ordering data											
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре				
					[g]						
HMVD	80	19	215	2	900	566 892	HMVD-DL-40/63				

1) Corrosion resistance class 2 according to Festo standard 940 070





- Reliable guidance
- Rapid assembly and disassembly
- Low space requirement
- Low noise levels

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Key features

Installation components facilitate a clear, safe layout of electrical cables and pneumatic tubing. They can be quickly dismantled and reassembled if servicing is required. They are mainly used for short strokes in pick & place systems and for installing drives along the Z-axis in gantry units.



Protective conduit MKR

Flexible conduit protects electrical cables and pneumatic tubing at machines and in installations. The conduit connector MKRT enables a protective conduit with a small diameter to be inserted and fastened into a protective conduit with a larger diameter. Intervention is thus possible at this point in the protective conduit system, for example for maintenance work.



With separable connector

Internal and external conduits can be separated from one another. Electrical cables and pneumatic tubing do not need to be pulled through the protective conduit, but can be laid in it. The matching connector can also be opened. Junction box HMZV



Protection for electrical cables and pneumatic tubing, especially for multi-axis systems.

Accessories

- Fittings and connectors MKRV, MKGV, MKA, MKRL, MKRT, MKY
- Lock nut MKM
- Retaining clip MKRS
- Installation kit HMZAS



Installation components for short strokes System example

System product for handling and assembly technology



Syste	em components and accessories		
		Brief description	→ Page/Internet
1	Drives	Wide range of combinations possible within handling and assembly technology	drive
2	Grippers	Wide range of variations possible within handling and assembly technology	gripper
3	Adapters	For drive/drive and drive/gripper connections	adapter kit
4	Basic components	Profiles and profile connections as well as profile/drive connections	basic component
5	Installation components	For a clear, safe layout of electrical cables and tubing	installation component
-	Axes	Wide range of combinations possible within handling and assembly technology	axis
-	Motors	Servo and stepper motors, with or without gear unit	motor

Installation components for short strokes Peripherals overview



Installation components for short strokes Peripherals overview



Varia	nts and accessories		
	Туре	Brief description	→ Page/Internet
1	Junction box HMZV	For bundling or distributing cables and tubing	95
2	Reducing connector MKA	For reducing thread size Material: Brass	100
3	Reducing connector MKA-KU	For reducing or enlarging thread size Material: Polyamide	101
4	Protective conduit fitting MKRV	For securing a protective conduit	96
5	Elbow connector for protective conduit MKRL	For securing a protective conduit	97
6	Retaining clip MKRS	For securing a protective conduit over long distances	102
7	Protective conduit MKR	For protecting cables and tubing	94
8	Protective conduit fitting MKGV	For securing a protective conduit. The connector can be separated so that cables and tubing in the system can be easily replaced.	99
9	Protective conduit MKG	For protecting cables and tubing. The conduit can be separated so that cables and tubing in the system can be easily replaced.	95
10	Y-distributor MKY	For distributing cables and tubing	98
1	Protective conduit connector MKRT	The protective conduits (different sizes) can be pushed into one another by releasing the connector. This permits easy replacement of cables and tubing.	98
12	Installation kit HMZAS	For securing protective conduit connectors at drives	103
3	Lock nut MKM	For securing connectors at adapter plates	102
14	Reducing connector MKA	Converts the metric thread into a Pg thread	99

Installation components for short strokes Selection aid

Accessories		Protective co	onduit					Junction box	→ Page, Internet
		MKR					MKG, separable	HMZV	
							D. Contention	•	
Connecting thread		Pg 9	Pg 11	Pg 16	Pg 21	Pg 29	Pg 29	Pg 29	
Protective conduit f	itting MKRV								
	Pg 9		-	-	-	-	-	-	96
200	Pg 11	-		-	-	-	_	-	
	Pg 16	-	-		-	-	-	-	
	Pg 21	-	-	-		-	-	-	
	Pg 29	-	-	-	-		-		
lbow connector for			1	1	1	1	T		
	Pg 9		-	-	-	-	-	-	97
Sher	Pg 11	-		-	-	-	-	-	_
-	Pg 16	-	-		-	-	-	-	_
	Pg 21	-	-	-		-	-	-	_
	Pg 29	-	-	-	-		-		
distributor MKY									
	Pg 21	_	_	_		_	-	-	98
	Pg 29	_	-	-	-		_		_
Protective conduit o	onnector MKRT								
3.2	Pg 16	-	-			-	-	-	98
	Pg 21	-	-			-	-	-	
Protective conduit c	onnector MKGV se	narable							
	M25	Purubic							99
		-	-	-	-	-	-	-	
	M32, M40	_	_	_	_	_	•	_	
		0	+	+	*	•	+	+	
Reducing connector		1)	1	1	1	1	1		00
	M25/	-	-	-	-	-	-	-	99
537	Pg 21 M32, M40/								_
	Pg 29	-	-	-	-	-			
Reducing connector	MKA (Pg/Pg thread	d)							
- sacing connector	Pg 29/	-,							100
0	Pg 21	-	-	_	-	-	-		100
Reducing connector	MKA-KII								
Course connector	Pg 29								101
		-	-	-	-	-	-	•	
	I	1	1	<u>u</u>	ı	1	1		
echnical data 🗦	Page/Internet			94			95	95	

Installation components for short strokes Selection aid

Accessories		Protective co	onduit					Junction box	→ Page/ Internet
		MKR					MKG, separable	HMZV	
							and the second second	- 1	
Connecting threa	d	Pg 9	Pg 11	Pg 16	Pg 21	Pg 29	Pg 29	Pg 29	
Lock nut MKM									
~	Pg 9		-	-	-	-	-	-	100
\mathcal{O}	Pg 11	-		-	-	-	-	-	
\sim	Pg 16	-	-		-	-	-	-	
	Pg 21	-	-	-		-	-	-	
	Pg 29	-	-	-	-			-	
Retaining clip MK	(RS								
	Pg 9		-	-	-	-	-	-	102
- X	Pg 11	-		-	-	-	-	-	
	Pg 16	-	-		-	-	-	-	
-	Pg 21	-	-	-		-	-	-	
	Pg 29	-	-	-	-			-	
Installation kit HI	MZAS								
	For connecti	ng thread Pg 2	1 and Pg 29						103
Technical data	➔ Page/Internet			94			95	95	

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Protective conduit MKR

for Pg connecting thread

Material: Polyamide Free of copper, PTFE and silicone

Scope of delivery: 1m



Dimensions and ordering data

Pg connecting	D1	D2	R min.		Protection class						
thread	Ø	Ø	Static	Dynamic							
Pg 9	10	13	15	45	IP 68						
Pg 11	12	15.8	22	55							
Pg 16	16.5	21.2	35	75							
Pg 21	23	28.5	45	100							
Pg 29	29	34.5	50	120							

Pg connecting thread	Temperature range [°C]	Mounting position	CRC ¹⁾	Weight [g/m]	Part No.	Туре
Pg 9	-50 +100	Any	2	24	177 564	MKR-10-PG-9
Pg 11				34	177 565	MKR-12-PG-11
Pg 16				56	177 566	MKR-16,5-PG-16
Pg 21				90	177 567	MKR-23-PG-21
Pg 29				120	177 568	MKR-29-PG-29

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

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Technical data

Materials: Polypropylene

RoHS-compliant

Protective conduit MKG, separable for Pg connecting thread Free of copper and PTFE

Scope of delivery: 1m

Dimensions and ordering data						
Pg connecting		D1				

Pg connecting	D1	D2	R	Temperature range	
thread	Ø	Ø		[°C]	
Pg 29	22.1	28.4	≥ 60	-20 +100	
	31.8	42.4	≥ 120		

Pg connecting thread	Mounting position	CRC ¹⁾	Weight [g/m]	Part No.	Туре
Pg 29	Any	2	95	3156318	MKG-23-PG-29-B
			150	3156319	MKG-36-PG-29

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Junction box HMZV 1 Mounting hole pattern DIN 91 with mounting kit for profile column HMBS Material: Polyamide Free of copper, PTFE and silicone

Dimensions and ordering data

Dimensions and o										
Pg connecting	Temperature range	Protection class	Mounting position	CRC ¹⁾	Weight	Part No.	Туре			
thread										
	[°C]				[g]					
Pg 29	-10 +60	IP 50	Any	2	280	175 126	HMZV			

1) Corrosion resistance class 2 according to Festo standard 940 070

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Protective conduit fitting MKRV

Material: Polyamide Free of copper, PTFE and silicone





Dimensions and ordering data

2											
Pg connecting	D2	D3	L1	L2	⊅=	Temperature range					
thread D1	Ø	Ø									
Ø						[°C]					
Pg 9	10	20	35	10	18	-30 +100					
Pg 11	12.5	23	37	10	21						
Pg 16	17	29.5	43.5		27						
Pg 21	23.5	37	46	12	34						
Pg 29	30.5	44	48		40						

Pg connecting thread D1	Protection class	Mounting position	CRC ¹⁾	Weight	Part No.	Туре
Ø				[g]		
Pg 9	IP 67	Any	2	5	177 569	MKRV-10-PG-9
Pg 11				6	177 570	MKRV-21-PG-11
Pg 16				10	177 571	MKRV-16,5-PG-16
Pg 21				14	177 572	MKRV-23-PG-21
Pg 29				22	177 573	MKRV-29-PG-29

Corrosion resistance class 2 according to Festo standard 940 070
 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

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Elbow connector for protective conduit MKRL

Material: Polyamide Free of copper, PTFE and silicone





Dimensions and ordering data

Pg connecting	D2	D3	D4	H1	L1	L2
thread D1	Ø	Ø	Ø			
Ø						
Pg 9	12	20	20	36	34	10
Pg 11	15.5	23	23	42	37.5	10
Pg 16	18	29.5	27	49.5	47	
Pg 21	24	37	34	57	55	12
Pg 29	32	44	43	68	63	

Pg connecting thread D1	Temperature range [°C]	Protection class	Mounting position	CRC ¹⁾	Weight	Part No.	Туре
Ø					[g]		
Pg 9	-30 +100	IP 67	Any	2	6	177 574	MKRL-10-PG-9
Pg 11					8	177 575	MKRL-12-PG-11
Pg 16					16	177 576	MKRL-16,5-PG-16
Pg 21					24	177 577	MKRL-23-PG-21
Pg 29					36	177 578	MKRL-29-PG-29

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

FESTO

Technical data

Y-distributor MKY

Material: Thermoplastic rubber Free of copper, PTFE and silicone





Dimensions	imensions and ordering data										
Pg connecting thread D1		D2	D3	D4	D6	D7	H1				
D1	D5	Ø	Ø	Ø	Ø	Ø					
Ø	Ø										
Pg 16	Pg 21	21.2	29.5	25.5	36.5	4	81.5				
Pg 21 Pg 29	Pg 29	28.5	36.5	31.5	42.5	4	86				

Pg connecting thread		L1	Temperature	Protection	Mounting	CRC ¹⁾	Weight	Part No.	Туре
D1	D5		range	class	position				
Ø	Ø		[°C]				[g]		
Pg 16	Pg 21	61	-30 +80	IP 67	Any	2	34	193 946	MKY-PG-21-2PG-16
Pg 21	Pg 29	79					50	193 947	MKY-PG-29-2PG-21

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Protective conduit connector MKRT

Material: Polyamide Free of copper, PTFE and silicone





1 For protective conduit MKR-16,5-PG16

2 For protective conduit MKR-23-PG21

Dimensions and ordering data

Dimensions and u										
Pg connecting	Temperature range	Protection class	Mounting position	CRC ¹⁾	Weight	Part No.	Туре			
thread										
	[°C]				[g]					
Pg 16/Pg 21	-10 +60	IP67	Any	2	40	194 321	MKRT-23-16,5			

1) Corrosion resistance class 2 according to Festo standard 940 070

FESTO

Protective conduit fitting MKGV, separable

Materials: Polyamide Free of copper and PTFE RoHS-compliant





Dimensions and ordering data

	U				
M-connecting	D3	D4	L1	L3	D=
thread D1	Ø	Ø			
Ø	max.				
M32x1.5	40	23	56	17	33
M40x1.5	53	36	74.5	22	50

M-connecting thread D1	Temperature range [°C]	Degree of protection	Mounting position	CRC ¹⁾	Weight	Part No.	Туре
Ø					[g]		
M32x1.5	-40 +100	IP 54	Any	2	17	3152612	MKGV-23-M32-B
M40x1.5					46	3152613	MKGV-36-M40

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Reducing connector MKA

Conversion of M thread to Pg thread

Materials: Nickel-plated brass RoHS-compliant







Dimensions and o	Dimensions and ordering data												
M-connecting	D2	D3	L1	L2	T1	D=							
thread D1	Ø	Ø											
Ø													
M32x1.5	Pg29	-	12	8	-	40							
M40x1.5	Pg29	32	21	8	10.5	43							

M-connecting thread	Temperature range	Mounting position	CRC ¹⁾	Weight	Part No.	Туре
	[°C]			[g]		
M32x1.5	-40 +200	Any	2	93	1879672	MKA-PG29-M32
M40x1.5				113	1879673	MKA-PG29-M40

1) Corrosion resistance class 2 according to Festo standard 940 070

FESTO

Reducing connector MKA

For reducing Pg 29 to Pg 21

Material: Nickel-plated brass Free of copper, PTFE and silicone





Dimensions and ordering data

Dimensions and o	idening data						
Pg connecting	Temperature range	Protection class	Mounting position	CRC ¹⁾	Weight	Part No.	Туре
thread							
	[°C]				[g]		
Pg 29/Pg 21	-30 +80	IP 50	Any	2	41	177 595	MKA-PG-29-PG-21

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Lock nut MKM

Material: Nickel-plated brass Free of copper, PTFE and silicone





Dimensions and o	ordering data							
Pg connecting	D2	B1	⊃=	Mounting	CRC ¹⁾	Weight	Part No.	Туре
thread D1	Ø			position				
Ø						[g]		
Pg 9	20	2.8	18	Any	2	2	177 596	MKM-PG-9
Pg 11	23.5	n	21	-		3	177 597	MKM-PG-11
Pg 16	29	2	26	-		5	177 598	MKM-PG-16
Pg 21	35.5	3.5	32	-		8	177 599	MKM-PG-21
Pg 29	45	4	41			14	177 600	MKM-PG-29

Corrosion resistance class 2 according to Festo standard 940 070 1)

FESTO

Reducing connector MKA-KU For reducing Pg 21 to Pg 16 For reducing Pg 29 to Pg 16

Material: Polyamide Free of copper, PTFE and silicone





Dimensions	and	ordering data

Brittenstons and o	acting adda						
Pg connecting thread	D1	D2	D3 Ø	D4 Ø	L1	L2	T1
tinead			Ø	Ø			Ø
Pg 21/Pg 16	Pg 16	Pg 21	16	35.5	16	11	12
Pg 29/Pg 16	Fg 10	Pg 29	17	42.8	17	11	12

Pg connecting thread	Ð=	Temperature range [°C]	Protection class	Mounting position	CRC ¹⁾	Weight [g]	Part No.	Туре
Pg 21/Pg 16	81.5	-30 +80	IP 50	Any	2	8	193 948	MKA-PG-21-PG-16-KU
Pg 29/Pg 16	86					12	193 949	MKA-PG-29-PG-16-KU

Corrosion resistance class 2 according to Festo standard 940 070
 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Reducing connector MKA-KU

For enlarging Pg 21 to Pg 29

Material: Polyamide Free of copper, PTFE and silicone





Dimensions and ordering data

Dimensions and e	nacing aata						
Pg connecting	Temperature range	Protection class	Mounting position	CRC ¹⁾	Weight	Part No.	Туре
thread							
	[°C]				[g]		
Pg 21/Pg 29	-30 +80	IP 50	Any	2	36	177 594	MKA-PG-21-PG-29-KU

1) Corrosion resistance class 2 according to Festo standard 940 070

FESTO

Retaining clip MKRS

Material: Polyamide Free of copper, PTFE and silicone





- 1 H-rail
 - Connector lugs (clips in series)
- Mating part for H-rail (clips one 3 above the other)

Dimensions and o	ordering data									
Pg connecting thread	B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	H1	H2	H3	L1
Pg 9 Pg 11	-			13 15.8	-		29			30
Pg 16	25	15	20	21.2	4.2	8	37	6.3	2.3	36.5
Pg 21	-			28.5	-		50.5	-		47.5
Pg 29				34.5						
		10	τ.	- .	cp.c1)			D (N	-	

Pg connecting thread	L2	L3	T1	Temperature range [°C]	CRC ¹⁾	Weight [g]	Part No.	Туре
Pg 9	8.5	26	5.7	-30 +80	2	5	192 287	MKRS-10-B
Pg 11	10	20	5.7			6	192 288	MKRS-12-B
Pg 16	16.6	32.5				8	192 289	MKRS-16,5-B
Pg 21	20	43.5	6.8			12	192 290	MKRS-23-B
Pg 29	25.5					14	192 291	MKRS-29-B

1) Corrosion resistance class 2 according to Festo standard 940 070

FESTO

Installation kit HMZAS

For attaching a protective conduit to the front plate of linear modules

Material: Powder-coated steel Free of copper, PTFE and silicone





Dimensions and o	ordering data								
For linear module	B1	B2	D1 Ø	D2 Ø	D3 Ø	D4 Ø	H2	H3	L1
HMP	14	9.25	37.5	5.3	3	2	30	21	59.5
For linear module	L2	L3	L4	L5	L6	L7	L8	L9	L10
HMP	34.5	55	21	30	27	19	10	5	4
For linear module	L11	R1	R2	Mounting position	CRC ¹⁾	Weight [g]	t	Part No. Type	
HMP	10	25	28.5	Any	1	44		177 603 HMZAS	-PG-29

1) Corrosion resistance class 1 according to Festo standard 940 070 Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.



FESTO

Key features

Installation components facilitate a clear, safe layout of electrical cables and pneumatic tubing. They can be quickly dismantled and reassembled if servicing is required. They are mainly used for long strokes in gantries and cantilever axes for connecting energy chains for the drives along the X and Y-axes.

All the parts required for connection are included in the scope of delivery.



Support profile HMIA

The support profile for energy chains is ideally suited for the requirements of handling and assembly technology thanks to its lightweight, compact and functional design. This guarantees fast assembly of the energy chains and profile via slot nut connections.

Installation kits



The installation kits permit easy and fast attachment of the energy chains to the connectors of the multi-axis modular system. The kits are harmonised with the

connectors for each standard so that the moving part of the energy chain is always horizontal.

HMIXF-RP/FP



This means that cables and tubing are optimally routed over long strokes.

Accessories

Slot nuts

Energy chains

(IGUS/ENERGY CHAIN)

Installation components for long strokes System example

System product for handling and assembly technology



Syste	em components and accessories		
		Brief description	→ Page/Internet
1	Drives	Wide range of combinations possible within handling and assembly technology	drive
2	Grippers	Wide range of variations possible within handling and assembly technology	gripper
3	Adapters	For drive/drive and drive/gripper connections	adapter kit
4	Basic components	Profiles and profile connections as well as profile/drive connections	basic component
5	Installation components	For a clear, safe layout of electrical cables and tubing	installation component
6	Axes	Wide range of combinations possible within handling and assembly technology	axis
7	Motors	Servo and stepper motors, with or without gear unit	motor

Installation components for long strokes Selection aid

Version	Brief description	→ Page/Internet
Installation kit HMIXB-RP/FP		
	 For three-dimensional gantries For X-axis For mounting the support profile HMIA-E07, HMIA-E10 	110
Installation kit HMIXF-RP/FP	- Forthers dimensional contains	110
	 For three-dimensional gantries For X-axis For mounting the energy chain 	110
Installation kit HMIX-RP/FP-E07/E10		1
	 For three-dimensional gantries For X-axis For mounting the energy chain 	111
Installation kit HMIM-LP		
	 For linear gantries For Z-axis Extension plate for height compensation in mono systems 	111
Installation kit HMID-LP		
	 For linear gantries For Z-axis Extension plate for height compensation in duo systems 	112
Installation kit HMIO-AP		
	 For linear gantries For Y-axis For mounting the energy chain 	112
Installation kit HMIYF-RF		
	 For three-dimensional gantries For Y-axis For mounting the energy chain 	113

Installation components for long strokes Selection aid

Version	Brief description	→ Page/Internet
Installation kit HMIY-LP-E07		
THE STREET	 For linear gantries For Y-axis For mounting the energy chain 	113
Installation kit HMIY-RP/FP-E07		
the second	 For three-dimensional gantries For Y-axis For mounting the energy chain 	114
Installation kit HMIZB-E03		
1	 For linear gantries For Z-axis For connecting energy chains and protective conduits 	114
Installation kit HMIW-E05/E07		
	 For linear and three-dimensional gantries For Z-axis For mounting the energy chain 	115
Installation kit HMIZF-E03		
	 For linear and three-dimensional gantries For Z-axis For mounting the energy chain 	115
Mounting kit HMIZW-E05/E07-DL40	/63	
	 For linear and three-dimensional gantries For Z-axis For mounting the energy chain 	116
Support profile HMIA		
	 For linear and three-dimensional gantries For X and Y-axes For mounting and guiding the energy chains 	116

Technical data

Installation kit HMIXB-RP/FP

• For three-dimensional gantries

• For mounting the support profile

• For X-axis

- Mounting accessories and earthing
- kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

FESTO





Dimensions and ordering data

Dimensions and orac	ing aata						
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре
					[g]		
HMIXB-RP/FP	60	6	210	2	200	539 654	HMIXB-RP/FP
HMIXB-RP/FP-2	50	14	245		400	566 893	HMIXB-RP/FP-2

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Installation kit HMIXF-RP/FP





- For X-axis
- Mounting accessories and earthing kits included in the scope of

Galvanised steel Free of copper, PTFE and silicone

Material:



Dimensions and ordering data CRC¹⁾ B1 Η1 L1 Weight Part No. Туре Туре [g] HMIXF-RP/FP 95 46 260 2 330 539 658 HMIXF-RP/FP HMIXF-RP/FP-2 95 46 314 1,050 566 896 HMIXF-RP/FP-2

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Installation kit HMIX-RP/FP-E07/E10

- For three-dimensional gantries • For X-axis
- Mounting accessories and earthing kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

FESTO





Dimensions and order	ring data												
Туре	B1	B2	B3	H1	H2	H3	L1	L2	L3	CRC ¹⁾	Weight	Part No.	Туре
											[g]		
HMIX	137	112	88	217	10	12	316.5	100	9.5	2	1,900	566 891	HMIX-RP/FP-E07/E10

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Installation kit HMIM-LP

• For linear gantries

• Extension plate for height

compensation in mono systems

Туре

HMIM-LP

- For Z-axis
- Mounting accessories and earthing kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone





Dimensions and ordering data B1 H1 CRC¹⁾ Weight L1 Part No. Туре [g] HMIM-LP 80 12 134 300 539 364 2

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Installation kit HMID-LP

- For linear gantries
 - For Z-axisExtension plate for height
 - compensation in duo systems
- Mounting accessories and earthing
- kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

FESTO





L1

Type B1 H1 L1 CRC ¹) Weight [g] Part No. Type	Dimensions and orde	Dimensions and ordering data											
[g]	Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре					
HMID-LP 80 12 285 2 700 539 363 HMID-LP	HMID-LP	80	12	285	2	700	539 363	HMID-LP					

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Installation kit HMIO-AP

For linear gantriesFor Y-axis

• For mounting the energy chain

- Mounting accessories and earthing kit included in the scope of delivery
- Material: Anodised aluminium Free of copper, PTFE and silicone





Dimensions and ordering data

Dimensions and order	ring data						
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре
					[g]		
HMIO-AP-1	80	12	95	2	240	539 366	HMIO-AP-1
HMIO-AP-2	80	12	115	1	300	540 121	HMIO-AP-2

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Installation kit

- HMIYF-RF/DL
- For three-dimensional gantries
 - For Y-axisFor mounting the energy chain
- Mounting accessories and earthing kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

FESTO





Dimensions and order	Dimensions and ordering data											
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре					
					[g]							
HMIYF-RF/DL25	105	12	200	2	700	539 659	HMIYF-RF/DL25					
HMIYF-RF/DL40	167	12	227		1,200	539 660	HMIYF-RF/DL40					

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Installation kit HMIY-LP-E07

- For linear gantriesFor Y-axis
- Mounting accessories and earthing kit included in the scope of delivery
- Material: Anodised aluminium Free of copper, PTFE and silicone







Dimensions and ordering data B2 H1 L1 CRC¹⁾ Weight Part No. Туре B1 Туре [g] HMIY 205 110 167 245 1,950 566 886 HMIY-LP-E07 2

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Installation kit HMIY-RP/FP-E07

- For three-dimensional gantries
- For Y-axisFor mounting the energy chain
- Mounting accessories and earthing kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

FESTO





Dimensions and ordering data											
Туре	B1	H1	L1	CRC ¹⁾	Weight [g]	Part No.	Туре				
HMIY	282	82	315	2	3,450	566 889	HMIY-RP/FP-E07				

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Installation kit HMIZB-E03

- For linear gantries
- For Z-axis
- For connecting energy chains and protective conduits
- Cantilever axes DGEA
- Spindle axes DGE
- Linear modules HMP
- Mini slides SLT
- Mounting accessories and earthing kit included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone





Dimensions and ordering data Туре B1 H1 L1 CRC¹⁾ Weight Part No. Туре [g] HMIZB-E03 410 539 365 HMIZB-E03 80 12 160 2

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Installation kit

HMIW-E05/E07





• For linear and three-dimensional

gantries

• Mounting accessories included in the scope of delivery

Material: Anodised aluminium Free of copper, PTFE and silicone

FESTO



Dimensions and order	Dimensions and ordering data												
Туре	B1	H1	H2	H3	L1	CRC ¹⁾	Weight [g]	Part No.	Туре				
HMIW	82	185	10	9	100	2	900	566 885	HMIW-E05/E07				

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Installation kit HMIZF-E03

• For linear and three-dimensional gantries

• For Z-axis

- Cantilever axes DGEA
- Mounting accessories and earthing kit included in the scope of delivery

Free of copper, PTFE and silicone



• For mounting the energy chain ۲ à L1 ÊΨ ĈΥ Ť 巴

- Material: Anodised aluminium

D:

Dimensions and order	ring data						
Туре	B1	H1	L1	CRC ¹⁾	Weight	Part No.	Туре
					[g]		
HMIZFDA18	60	10	80	2	130	539 370	HMIZF-E03-DA18
HMIZFDA25	55	25	80		300	539 371	HMIZF-E03-DA25
HMIZFDA40	80	10	120		300	566 895	HMIZF-E03/E05/E07-DA40

1) Corrosion resistance class 2 according to Festo standard 940 070

Technical data

Mounting kit

• For linear and three-dimensional

- HMIZW-E05/E07-DL40/63
- gantries • For Z-axis
- For mounting the energy chain





- Mounting accessories and earthing
 - kit included in the scope of delivery

Material: Galvanised steel Free of copper, PTFE and silicone

FESTO



• Mounting accessories and earthing

kit included in the scope of delivery

Material:

Anodised aluminium

Free of copper, PTFE and silicone

Dimensions and ordering data

Dimensions and orde	ing uata							
Туре	B1	H1	H2	L1	CRC ¹⁾	Weight	Part No.	Туре
						[g]		
HMIZW	31	124	4	90	2	400	566 877	HMIZW-E05/E07-DL40/63

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Support profile HMIA

- For linear and three-dimensional gantries
- For X and Y-axes
- For mounting and guiding the energy chains



The length L1 is dependent on the stroke and must be quoted in the order (L_{max} = 3 m).

Dimensions and ordering data

Туре	B1	H1	CRC ¹⁾	Weight per metre	Part No.	Туре
				[g]		
HMIA-E03	60	36	2	1,510	567 061	HMIA-E03
HMIA-E05	80	36		2,120	539 378	HMIA-E05
HMIA-E07	100	36		2,340	539 379	HMIA-E07
HMIA-E10	130	36		3,200	566 894	HMIA-E10

Corrosion resistance class 2 according to Festo standard 940 070 1)