



- Modular
- Simple and time-saving project engineering
- Fast system assembly

Multi-axis modular system

Key features

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The concept

The multi-axis modular system for handling and assembly technology includes basic, connection and installation components for assembling multi-axis systems. These standardised axis combinations are the product of over ten years experience in the designing

of handling systems.

The concept of the multi-axis modular system is based on a modular design with axis modules along the X-, Y- and Z-axes. These modules all have the same interfaces, which means they can be combined together.

Standard solutions with specifications on stroke, working load and intermediate positions offer practical module combinations.

The advantages of this modularity are as follows:

- Simple and time-saving project engineering
- Fast system assembly
- Availability of CAD data for standard designs

Selection matrix		
Pick & place	Linear gantries	3-Dimensional gantries
Pneumatic	Pneumatic/electrical	
 → 5 / 3.3-132	 → 5 / 3.3-144	 → 5 / 3.3-158
Pneumatic with end position controller SPC11 (Soft Stop)		
	 → 5 / 3.3-144	
Electrical with spindle or toothed belt axis		
	 → 5 / 3.3-144	 → 5 / 3.3-158

Multi-axis modular system

Key features

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Pick & place



Linear gantries



3-Dimensional gantries

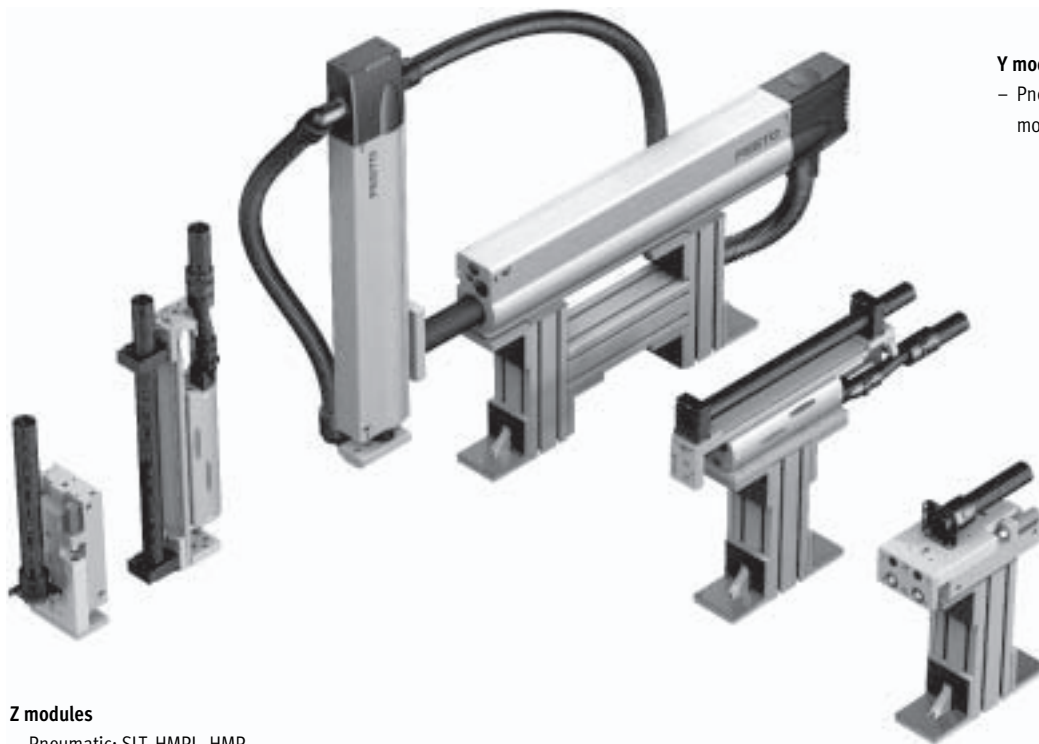


Pick & place

Key features

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Y and Z modules



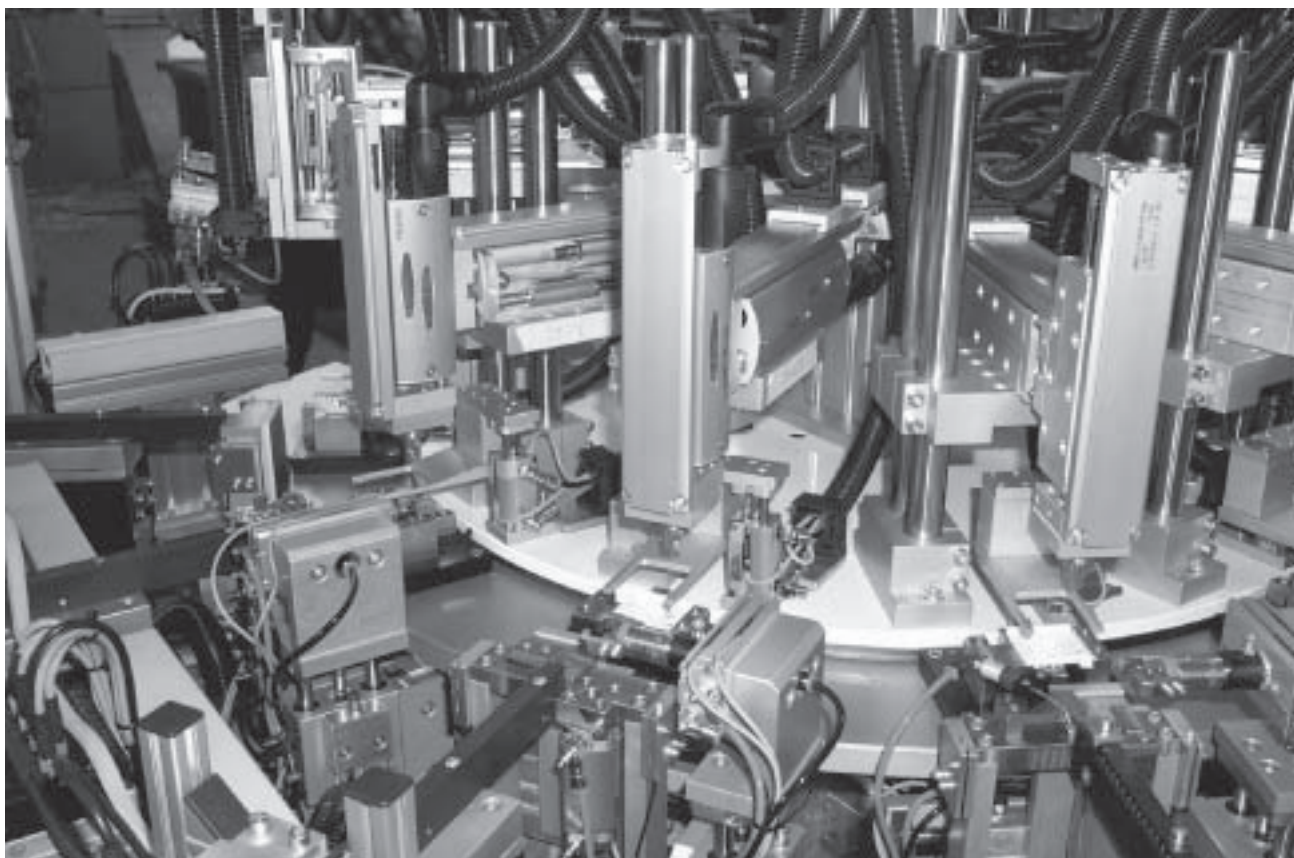
Y modules

- Pneumatic: SLT, HMPL, HMP mounted on basic components

Z modules

- Pneumatic: SLT, HMPL, HMP

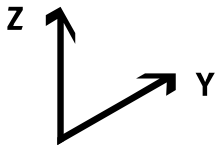
Application



Pick & place

Product range overview

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Selection aid						
Function	SLT/SLT	HMPL/HMPL	HMP/SLT	HMP/HMPL	HMP/HMP	
						
Y-axis	SLT	HMPL	HMP	HMP	HMP	
Drive function	Pneumatic					
Options	Shock absorber, adjustable/non-adjustable cushioning	Intermediate position, clamping cartridge	Intermediate position			
Z-axis	SLT	HMPL	SLT	HMPL	HMP	
Drive function	Pneumatic					
Options	Shock absorber, adjustable/non-adjustable cushioning	Intermediate position, clamping cartridge	Shock absorber, adjustable/non-adjustable cushioning	Intermediate position, clamping cartridge		
Working load [kg]						
	1	■	■	■	■	
	2	■	■	■	■	
	3	■	■	■	■	
	4	–	–	■	■	■
	6	–	–	■	■	■
	10	–	–	–	–	■
→ Page	5 / 3.3-134					

- - Note

Applicable stroke ranges:

→ Volume 1

Pick & place

Selection aid for basic, connection and installation components

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Y-axis						
Function		SLT/SLT	HMPL/HMPL	HMP/SLT	HMP/HMPL	HMP/HMP
						
Pneumatic drives	Stroke [mm]	Type				
SLT-16	30 ... 150	HMBSY-SLT-1 5 / 3.3-136	–	–	–	–
SLT-20	30 ... 100	HMBSY-SLT-2 5 / 3.3-136	–	–	–	–
	125 ... 200	HMBSY-SLT-3 5 / 3.3-136	–	–	–	–
SLT-25	30 ... 100	HMBSY-SLT-4 5 / 3.3-136	–	–	–	–
	125 ... 200	HMBSY-SLT-5 5 / 3.3-136	–	–	–	–
HMPL-16	50 ... 160	–	HMBSY-HMPL-1 HMBSY-HMPL-2 5 / 3.3-137	–	–	–
HMPL-20	50 ... 200	–	HMBSY-HMPL-3 HMBSY-HMPL-4 5 / 3.3-137	–	–	–
HMP-16	150 ... 250	–	–	HMBSY-HMP-1 5 / 3.3-138	HMBSY-HMP-1 5 / 3.3-138	–
	320	–	–	HMBSY-HMP-2 5 / 3.3-138	HMBSY-HMP-2 5 / 3.3-138	–
HMP-20	100 ... 250	–	–	HMBSY-HMP-3 5 / 3.3-138	HMBSY-HMP-3 5 / 3.3-138	HMBSY-HMP-3 5 / 3.3-138
	320 ... 400	–	–	HMBSY-HMP-4 5 / 3.3-138	HMBSY-HMP-4 5 / 3.3-138	HMBSY-HMP-4 5 / 3.3-138
HMP-25	100 ... 200	–	–	HMBSY-HMP-5 5 / 3.3-139	–	HMBSY-HMP-5 5 / 3.3-139
	250 ... 400	–	–	HMBSY-HMP-6 5 / 3.3-139	–	HMBSY-HMP-6 5 / 3.3-139
HMP-32	100 ... 200	–	–	–	–	HMBSY-HMP-7 5 / 3.3-139
	250 ... 400	–	–	–	–	HMBSY-HMP-8 5 / 3.3-139

Selection example

Project engineering produced the following drive combination:

Y-axis: HMP-16,
200 mm stroke
Z-axis: HMPL-16,
with intermediate position

Step 1

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

Y-axis: HMBSY-HMP-1
→ 5 / 3.3-138
Z-axis: HMBSZ-HMPL-3 or 4
→ 5 / 3.3-142

Step 2

The necessary basic, connection and installation components can be found in the bill of materials on the specified page.

Y-axis: HMBSY-HMP-1
Z-axis: HMBSZ-HMPL-4

Step 3

Technical data on the basic, connection and installation components can be found on the specified pages. Further accessories for the selected drives, for example proximity sensors, centring sleeves, etc. are documented with the drives.

Pick & place

Selection aid for basic, connection and installation components

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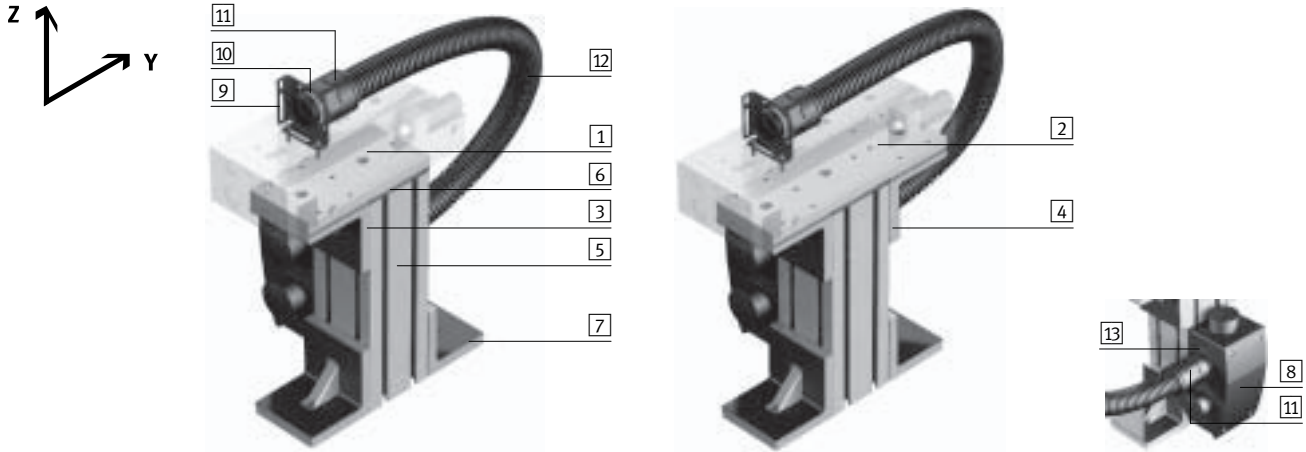
Z-axis					
Function	SLT/SLT	HMPL/HMPL	HMP/SLT	HMP/HMPL	HMP/HMP
					
Pneumatic drives	Type				
SLT-10	HMBSZ-SLT-1 5 / 3.3-140	–	–	–	–
SLT-16	HMBSZ-SLT-2 5 / 3.3-140	–	HMBSZ-SLT-4 5 / 3.3-141	–	–
SLT-20	HMBSZ-SLT-3 5 / 3.3-140	–	HMBSZ-SLT-5 5 / 3.3-141	–	–
SLT-25	–	–	HMBSZ-SLT-6 5 / 3.3-141	–	–
HMPL-12	–	HMBSZ-HMPL-1 HMBSZ-HMPL-2 5 / 3.3-142	–	–	–
HMPL-16	–		–	HMBSZ-HMPL-3 HMBSZ-HMPL-4 5 / 3.3-142	–
HMPL-20	–		–		–
HMP-16	–	–	–	–	HMBSZ-HMP-1 5 / 3.3-143
HMP-20	–	–	–	–	HMBSZ-HMP-2 5 / 3.3-143
HMP-25	–	–	–	–	HMBSZ-HMP-3 5 / 3.3-143

Pick & place

Y modules

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Mini slides SLT



Bill of materials													
Type		HMBSY-SLT-1		HMBSY-SLT-2		HMBSY-SLT-3		HMBSY-SLT-4		HMBSY-SLT-5			
For drives		SLT-16		SLT-20				SLT-25					
Stroke [mm]		30 ... 150		30 ... 100		125 ... 200		30 ... 100		125 ... 200			
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type		
[1]	1	539 968 HMOVY-1		539 969 HMOVY-2		–		539 969 HMOVY-2		–		5 / 3.3-192	
[2]	1	–		–		539 970 HMOVY-3		–		539 970 HMOVY-3			
[3]	1	175 967 HMBV-ND		175 967 HMBV-ND		–		175 967 HMBV-ND		–			5 / 3.3-177
[4]	2	–		–		175 967 HMBV-ND		–		175 967 HMBV-ND			
[5]	1 ¹⁾	175 958 HMBS-80/80		175 958 HMBS-80/80		175 958 HMBS-80/80		175 958 HMBS-80/80		175 958 HMBS-80/80		5 / 3.3-174	
[6]	1	175 965 HMBSA-80/80		175 965 HMBSA-80/80		175 965 HMBSA-80/80		175 965 HMBSA-80/80		175 965 HMBSA-80/80		5 / 3.3-174	
[7]	2	175 951 HMBF-DB		175 951 HMBF-DB		175 951 HMBF-DB		175 951 HMBF-DB		175 951 HMBF-DB		5 / 3.3-176	
[8]	1	175 126 HMZV		175 126 HMZV		175 126 HMZV		175 126 HMZV		175 126 HMZV		5 / 3.3-211	
[9]	1	193 124 HMZAS-PG-21		193 124 HMZAS-PG-21		193 124 HMZAS-PG-21		193 124 HMZAS-PG-21		193 124 HMZAS-PG-21		5 / 3.3-218	
[10]	1	177 599 MKM-PG-21		177 599 MKM-PG-21		177 599 MKM-PG-21		177 599 MKM-PG-21		177 599 MKM-PG-21		5 / 3.3-217	
[11]	2	177 572 MKRV-23-PG-21		177 572 MKRV-23-PG-21		177 572 MKRV-23-PG-21		177 572 MKRV-23-PG-21		177 572 MKRV-23-PG-21		5 / 3.3-212	
[12]	1 ²⁾	177 567 MKR-23-PG-21		177 567 MKR-23-PG-21		177 567 MKR-23-PG-21		177 567 MKR-23-PG-21		177 567 MKR-23-PG-21		5 / 3.3-210	
[13]	1	177 595 MKA-PG-29-PG-21		177 595 MKA-PG-29-PG-21		177 595 MKA-PG-29-PG-21		177 595 MKA-PG-29-PG-21		177 595 MKA-PG-29-PG-21		5 / 3.3-215	

1) Height max. 500 mm

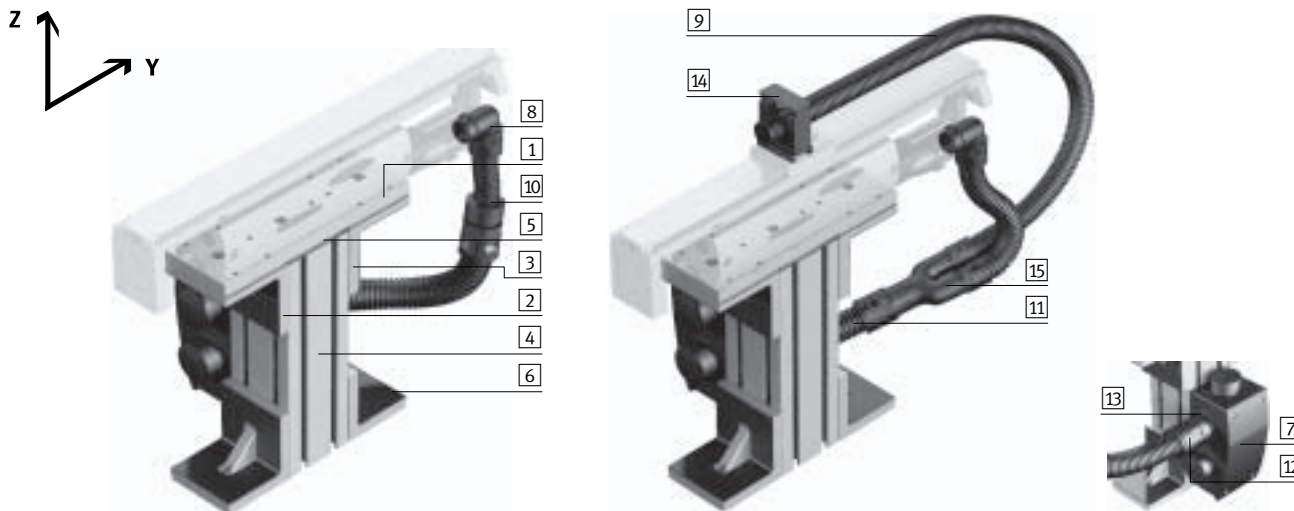
2) Length depends on the stroke of the drive

Pick & place

Y modules

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Linear modules HMPL



Bill of materials										
Type		HMBSY-HMPL-1		HMBSY-HMPL-2		HMBSY-HMPL-3		HMBSY-HMPL-4		→ Page
For drives		HMPL-16				HMPL-20				
		without intermediate position		with intermediate position		without intermediate position		with intermediate position		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	
[1]	1	539 968		539 968		539 970		539 970		5 / 3.3-192
		HMVY-1		HMVY-1		HMVY-3		HMVY-3		
[2]	1	175 967		175 967		–		–		5 / 3.3-177
		HMBV-ND		HMBV-ND						
[3]	2	–		–		175 967		175 967		
						HMBV-ND		HMBV-ND		
[4]	1 ¹⁾	175 958		175 958		175 958		175 958		5 / 3.3-174
		HMBS-80/80		HMBS-80/80		HMBS-80/80		HMBS-80/80		
[5]	1	175 965		175 965		175 965		175 965		5 / 3.3-174
		HMBSA-80/80		HMBSA-80/80		HMBSA-80/80		HMBSA-80/80		
[6]	2	175 951		175 951		175 951		175 951		5 / 3.3-176
		HMBF-DB		HMBF-DB		HMBF-DB		HMBF-DB		
[7]	1	175 126		175 126		175 126		175 126		5 / 3.3-211
		HMZV		HMZV		HMZV		HMZV		
[8]	1	177 576		177 576		177 576		177 576		5 / 3.3-212
		MKRL-16,5-PG-16		MKRL-16,5-PG-16		MKRL-16,5-PG-16		MKRL-16,5-PG-16		
[9]	1 ²⁾	177 566		177 566		177 566		177 566		5 / 3.3-210
		MKR-16,5-PG-16		MKR-16,5-PG-16		MKR-16,5-PG-16		MKR-16,5-PG-16		
[10]	1	194 321		–		194 321		–		5 / 3.3-214
		MKRT-23-16,5				MKRT-23-16,5				
[11]	1 ²⁾	177 567		177 567		177 567		177 567		5 / 3.3-210
		MKR-23-PG-21		MKR-23-PG-21		MKR-23-PG-21		MKR-23-PG-21		
[12]	1	177 572		177 572		177 572		177 572		5 / 3.3-212
		MKRV-23-PG-21		MKRV-23-PG-21		MKRV-23-PG-21		MKRV-23-PG-21		
[13]	1	177 595		177 595		177 595		177 595		5 / 3.3-215
		MKA-PG-29-PG-21		MKA-PG-29-PG-21		MKA-PG-29-PG-21		MKA-PG-29-PG-21		
[14]	1 ³⁾	–		192 289		–		192 289		5 / 3.3-217
				MKRS-16,5-B				MKRS-16,5-B		
[15]	1	–		193 946		–		193 946		5 / 3.3-214
				MKY-PG-21-2PG-16				MKY-PG-21-2PG-16		

1) Height max. 500 mm

2) Length depends on the stroke of the drive, 2 conduits are required with an intermediate position.

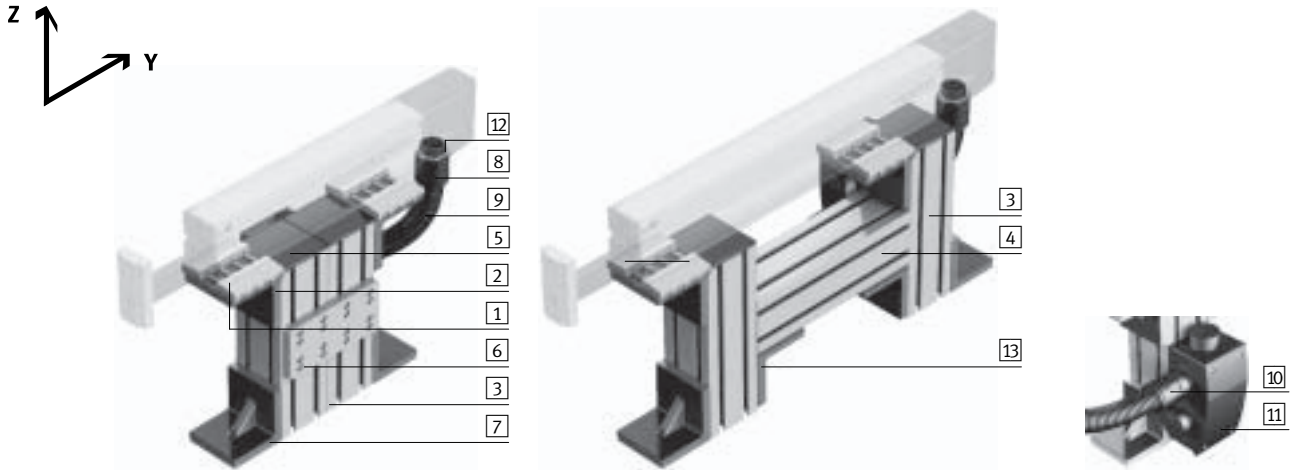
3) In order to be able to mount the retaining clip MKRS, a clamping component (1x code J) must be selected as an accessory in the order for the linear module HMPL.

Pick & place

Y modules

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Linear modules HMP



Bill of materials									
Type		HMBSY-HMP-1		HMBSY-HMP-2		HMBSY-HMP-3		HMBSY-HMP-4	
For drives		HMP-16				HMP-20			
Stroke [mm]		150 ... 250			320	100 ... 250			320 ... 400
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type
[1]	2	175 975	HMBK-WS	175 975	HMBK-WS	175 975	HMBK-WS	175 975	HMBK-WS
[2]	2	175 967	HMBV-ND	175 967	HMBV-ND	175 967	HMBV-ND	175 967	HMBV-ND
[3]	2 ¹⁾	175 958	HMBS-80/80	175 958	HMBS-80/80	175 958	HMBS-80/80	175 958	HMBS-80/80
[4]	1 ²⁾	–		175 958	HMBS-80/80	–		175 958	HMBS-80/80
[5]	2	175 965	HMBSA-80/80	175 965	HMBSA-80/80	175 965	HMBSA-80/80	175 965	HMBSA-80/80
[6]	1	175 972	HMBSV	–		175 972	HMBSV	–	
[7]	2	175 951	HMBF-DB	175 951	HMBF-DB	175 951	HMBF-DB	175 951	HMBF-DB
[8]	2	177 572	MKRV-23-PG-21	177 572	MKRV-23-PG-21	177 573	MKRV-29-PG-29	177 573	MKRV-29-PG-29
[9]	1 ³⁾	177 567	MKR-23-PG-21	177 567	MKR-23-PG-21	177 568	MKR-29-PG-29	177 568	MKR-29-PG-29
[10]	1	177 595	MKA-PG-29-PG-21	177 595	MKA-PG-29-PG-21	–		–	
[11]	1	175 126	HMZV	175 126	HMZV	175 126	HMZV	175 126	HMZV
[12]	1	177 599	MKM-PG-21	177 599	MKM-PG-21	177 600	MKM-PG-29	177 600	MKM-PG-29
[13]	2	–		178 228	HMBSW	–		178 228	HMBSW

1) Height max. 500 mm

2) Length 250 mm

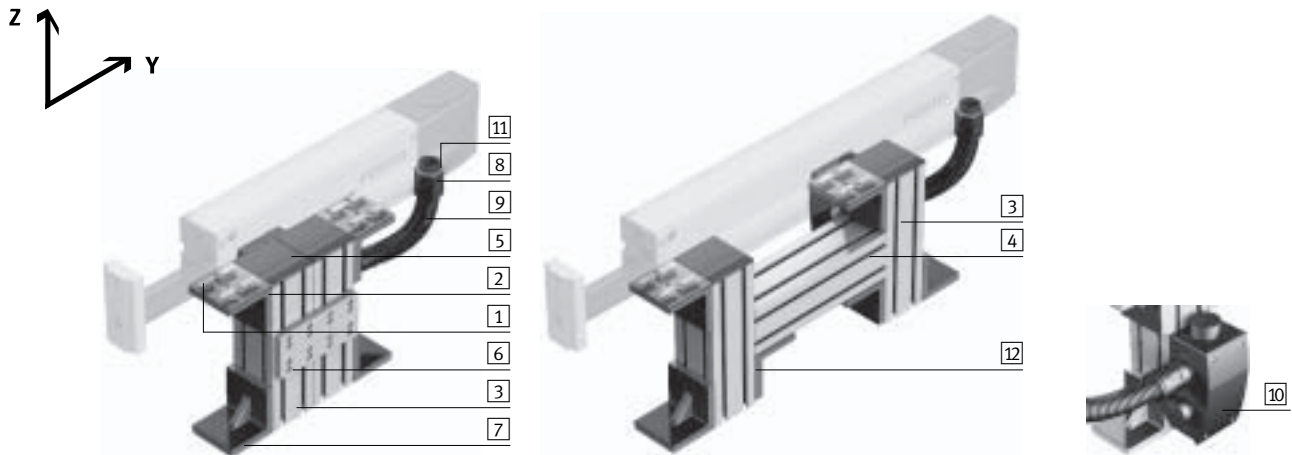
3) Length depends on the stroke of the drive

Pick & place

Y modules

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Linear modules HMP



Bill of materials										
Type		HMBSY-HMP-5		HMBSY-HMP-6		HMBSY-HMP-7		HMBSY-HMP-8		
For drives		HMP-25				HMP-32				
Stroke [mm]		100 ... 200		250 ... 400		100 ... 200		250 ... 400		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	
[1]	2	175 970 HMBK-ND		175 970 HMBK-ND		175 970 HMBK-ND		175 970 HMBK-ND		5 / 3.3-190
[2]	2	175 967 HMBV-ND		175 967 HMBV-ND		175 967 HMBV-ND		175 967 HMBV-ND		5 / 3.3-177
[3]	2 ¹⁾	175 958 HMBS-80/80		175 958 HMBS-80/80		175 958 HMBS-80/80		175 958 HMBS-80/80		5 / 3.3-174
[4]	1 ²⁾	–		175 958 HMBS-80/80		–		175 958 HMBS-80/80		
[5]	2	175 965 HMBSA-80/80		175 965 HMBSA-80/80		175 965 HMBSA-80/80		175 965 HMBSA-80/80		5 / 3.3-174
[6]	1	175 972 HMBSV		–		175 972 HMBSV		–		5 / 3.3-175
[7]	2	175 951 HMBF-DB		175 951 HMBF-DB		175 951 HMBF-DB		175 951 HMBF-DB		5 / 3.3-176
[8]	2	177 573 MKRV-29-PG-29		177 573 MKRV-29-PG-29		177 573 MKRV-29-PG-29		177 573 MKRV-29-PG-29		5 / 3.3-212
[9]	1 ³⁾	177 568 MKR-29-PG-29		177 568 MKR-29-PG-29		177 568 MKR-29-PG-29		177 568 MKR-29-PG-29		5 / 3.3-210
[10]	1	175 126 HMZV		175 126 HMZV		175 126 HMZV		175 126 HMZV		5 / 3.3-211
[11]	1	177 600 MKM-PG-29		177 600 MKM-PG-29		177 600 MKM-PG-29		177 600 MKM-PG-29		5 / 3.3-217
[12]	2	–		178 228 HMBSW		–		178 228 HMBSW		5 / 3.3-175

1) Height max. 500 mm

2) Length 350 mm

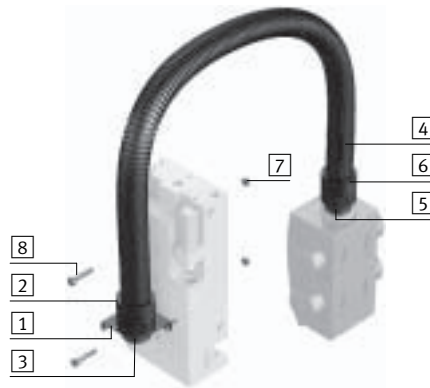
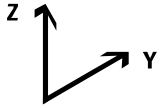
3) Length depends on the stroke of the drive

Pick & place

Z modules

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Mini slides SLT



Bill of materials								
Type		HMBSZ-SLT-1		HMBSZ-SLT-2		HMBSZ-SLT-3	→ Page	
For drives		SLT-10		SLT-16		SLT-20		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.		Type
[1]	1	192 289		193 124		193 124		5 / 3.3-218
		MKRS-16,5-PG-9		HMZAS-PG-21		HMZAS-PG-21		
[2]	1	–		177 572		177 572		5 / 3.3-212
				MKRV-23-PG-21		MKRV-23-PG-21		
[3]	1	–		177 599		177 599		5 / 3.3-217
				MKM-PG-21		MKM-PG-21		
[4]	1 ¹⁾	177 566		177 567		177 567		5 / 3.3-210
		MKR-16,5-PG-16		MKR-23-PG-21		MKR-23-PG-21		
[5]	1	193 949		177 595		177 595		5 / 3.3-215
		MKA-PG-29-PG-16-KU		MKA-PG-29-PG-21		MKA-PG-29-PG-21		
[6]	1	177 571		177 572		177 572		5 / 3.3-212
		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		
[8]	2	M4x25 DIN 912		M5x30 DIN 912		M6x40 DIN 912		–

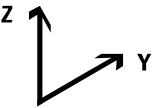
1) Length depends on the stroke of the drive

2) Centring sleeves are included in the scope of delivery of the mini slide SLT.

Pick & place

Z modules

Mini slides SLT



Bill of materials								
Type		HMBSZ-SLT-4		HMBSZ-SLT-5		HMBSZ-SLT-6		
For drives		SLT-16		SLT-20		SLT-25		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	➔ Page
1	1	193 124		193 124		193 124		5 / 3.3-218
		HMZAS-PG-21		HMZAS-PG-21		HMZAS-PG-21		
2	2	177 572		177 572		177 572		5 / 3.3-212
		MKRV-23-PG-21		MKRV-23-PG-21		MKRV-23-PG-21		
3	1	177 599		177 599		177 599		5 / 3.3-217
		MKM-PG-21		MKM-PG-21		MKM-PG-21		
4	1 ¹⁾	177 567		177 567		177 567		5 / 3.3-210
		MKR-23-PG-21		MKR-23-PG-21		MKR-23-PG-21		
5	1	177 595		177 595		177 595		5 / 3.3-215
		MKA-PG-29-PG-21		MKA-PG-29-PG-21		MKA-PG-29-PG-21		
6	1	178 331		178 332		178 332		5 / 3.2-10
		HMSV-36		HMSV-37		HMSV-37		

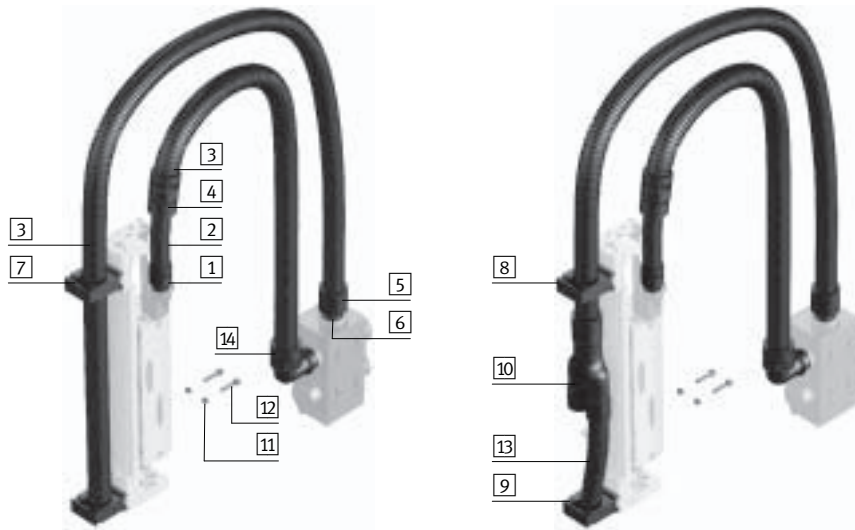
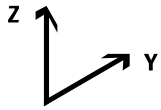
1) Length depends on the stroke of the drive

Pick & place

Z modules

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Linear modules HMPL



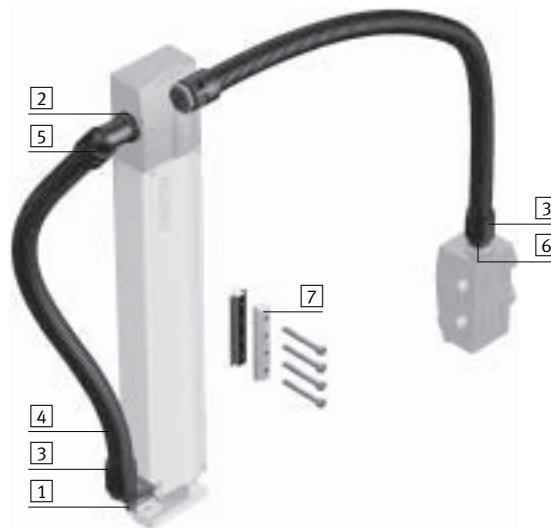
Bill of materials							
Type		HMBSZ-HMPL-1	HMBSZ-HMPL-2	HMBSZ-HMPL-3	HMBSZ-HMPL-4	→ Page	
For drives		HMPL-12	HMPL-12	HMPL-16	HMPL-16		
		HMPL-16	HMPL-16	HMPL-20	HMPL-20		
		HMPL-20	HMPL-20				
		without intermediate position	with intermediate position	without intermediate position	with intermediate position		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
[1]	1	177 571		177 571		177 571	
		MKRV-16,5-PG-16		MKRV-16,5-PG-16		MKRV-16,5-PG-16	
[2]	1 ¹⁾	177 566		177 566		177 566	
		MKR-16,5-PG-16		MKR-16,5-PG-16		MKR-16,5-PG-16	
[3]	2 ¹⁾	177 567		177 567		177 567	
		MKR-23-PG-21		MKR-23-PG-21		MKR-23-PG-21	
[4]	1	194 321		194 321		194 321	
		MKRT-23-16,5		MKRT-23-16,5		MKRT-23-16,5	
[5]	1	177 572		177 572		177 572	
		MKRV-23-PG-21		MKRV-23-PG-21		MKRV-23-PG-21	
[6]	2	177 595		177 595		177 595	
		MKA-PG-29-PG-21		MKA-PG-29-PG-21		MKA-PG-29-PG-21	
[7]	2 ²⁾	192 290		192 290		192 290	
		MKRS-23-B		MKRS-23-B		MKRS-23-B	
[8]	1 ²⁾	–		192 290		192 290	
				MKRS-23-B		MKRS-23-B	
[9]	1 ²⁾	–		192 289		192 289	
				MKRS-16,5-B		MKRS-16,5-B	
[10]	1	–		193 946		193 946	
				MKY-PG-21-2PG-16		MKY-PG-21-2PG-16	
[11]	1 ³⁾	150 927		150 927		150 927	
		ZBH-9		ZBH-9		ZBH-9	
[12]	2	M5x16 DIN 912		M5x16 DIN 912		M5x22 DIN 912	
[13]	1 ¹⁾	–		177 566		177 566	
				MKR-16,5-PG-16		MKR-16,5-PG-16	
[14]	1	177 577		177 577		177 577	
		MKRL-23-PG-21		MKRL-23-PG-21		MKRL-23-PG-21	

1) Length depends on the stroke of the drive

2) In order to be able to mount the retaining clip MKRS, a clamping component (2x code J) must be selected as an accessory in the order for the linear module HMPL.

3) 10 per packaging unit

Z modules



Bill of materials								
Type		HMBSZ-HMP-1		HMBSZ-HMP-2		HMBSZ-HMP-3	➔ Page	
For drives		HMP-16		HMP-20		HMP-25		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.		Type
1	1	193 124		177 603		177 603		5 / 3.3-218
		HMZAS-PG-21		HMZAS-PG-29		HMZAS-PG-29		
2	3	177 599		177 600		177 600		5 / 3.3-217
		MKM-PG-21		MKM-PG-29		MKM-PG-29		
3	3	177 572		177 573		177 573		5 / 3.3-212
		MKRV-23-PG-21		MKRV-29-PG-29		MKRV-29-PG-29		
4	2 ¹⁾	177 567		177 568		177 568		5 / 3.3-210
		MKR-23-PG-21		MKR-29-PG-29		MKR-29-PG-29		
5	1	177 577		177 578		177 578		5 / 3.3-213
		MKRL-23-PG-21		MKRL-29-PG-29		MKRL-29-PG-29		
6	1	177 595		–		–		5 / 3.3-215
		MKA-PG-29-PG-21						
7	1	177 647		177 649		177 653		5 / 3.3-183
		HMSV-1		HMSV-3		HMSV-7		

- 1) Length depends on the stroke of the drive

Linear gantries

Key features

FESTO

Y and Z modules



Y modules

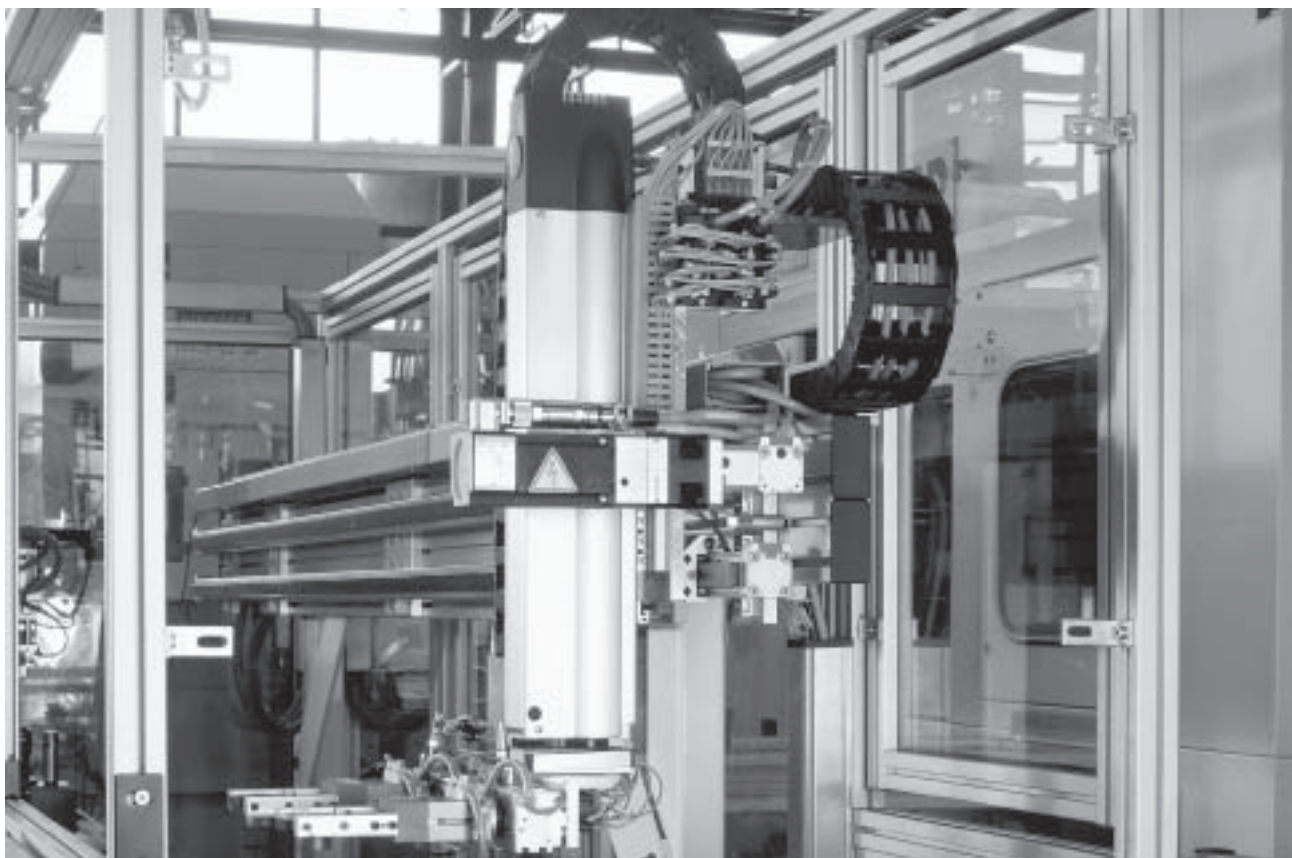
- Pneumatic: DGP, DGC
- Pneumatic with end position controller SPC11 (Soft Stop): DGP
- Electrical with toothed belt or spindle axis: DGE
- Single-axis systems (mono) or drives with guide axis (duo)

Z modules

- Pneumatic: SLT, HMPL, HMP
- Electrical with toothed belt or spindle axis: DGE, DGEA

Gantry tubing and cables are routed via protective trunking. Festo uses a base profile for this purpose specially designed for handling technology.

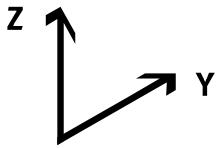
Application



Linear gantries

Product range overview

FESTO

Selection aid						
System type	Mono 25		Mono 40		Duo 25	Duo 40
						
Y-axis	DG...-25	DG...-40	DG...-25		DG...-40	
Drive function	Pneumatic, pneumatic with end position controller SPC11 (Soft Stop) or electrical					
Options	Spindle or toothed belt axis					
Z-axis	SLT-16 HMPL-16	SLT-20 HMPL-20 HMP-16		SLT-25 HMP-20	HMP-25	
Drive function	Pneumatic					
Options	Intermediate position with HMPL	Intermediate position with HMPL, HMP		Intermediate position with HMP		
Z-axis	DGEA-18	DGEA-18 DGE-25-SP-KF		DGEA-25 DGE-40-SP-KF	DGEA-25 DGE-40-SP-KF	
Drive function	Electrical					
Options	–	Spindle or toothed belt axis		Spindle or toothed belt axis		
Working load [kg]						
	1	■	■	■	■	
	2	■	■	■	■	
	3	–	■	■	■	
	4	–	■	■	■	
	6	–	–	■	■	
	10	–	–	–	■	
→ Page	5 / 3.3-146					

-  - Note

Applicable stroke ranges:

→ Volume 1

System components
Multi-axis modular system

3.3

Linear gantries

Selection aid for basic, connection and installation components

FESTO

Y-axis				
System type	Mono 25	Mono 40	Duo 25	Duo 40
				
Pneumatic drives	Type			
DGPL-25	HMBSY-LP-M25-1 5 / 3.3-148	–	HMBSY-LP-D25-1 5 / 3.3-150	–
DGC-25	HMBSY-LP-M25-2 5 / 3.3-148	–	HMBSY-LP-D25-2 5 / 3.3-150	–
DGPL-25 with SPC11	HMBSY-LP-M25-3 5 / 3.3-148	–	HMBSY-LP-D25-3 5 / 3.3-150	–
DGPL-40	–	HMBSY-LP-M40-1 5 / 3.3-149	–	HMBSY-LP-D40-1 5 / 3.3-151
DGC-40	–	HMBSY-LP-M40-2 5 / 3.3-149	–	HMBSY-LP-D40-2 5 / 3.3-151
DGPL-40 with SPC11	–	HMBSY-LP-M40-3 5 / 3.3-149	–	HMBSY-LP-D40-3 5 / 3.3-151
Electrical drives	Type			
DGE-25 -SP-KF	HMBSY-LP-M25-1 5 / 3.3-148	–	HMBSY-LP-D25-1 5 / 3.3-150	–
-ZR-KF				
-ZR-RF	HMBSY-LP-M25-4 5 / 3.3-148	–	HMBSY-LP-D25-4 5 / 3.3-150	–
DGE-40 -SP-KF	–	HMBSY-LP-M40-1 5 / 3.3-149	–	HMBSY-LP-D40-1 5 / 3.3-151
-ZR-KF				
-ZR-RF				

Selection example:

Project engineering produced the following drive combination:

Y-axis: Duo 25 system with
DGE-25-ZR-RF
Z-axis: SLT-20

Step 1

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

Y-axis: HMBSY-LP-D25-4
→ 5 / 3.3-150
Z-axis: HMBSZ-SLT-7
→ 5 / 3.3-152

Step 2

The necessary basic, connection and installation components can be found in the bill of materials on the specified page.

Y-axis: HMBSY-LP-D25-4
Z-axis: HMBSZ-SLT-7

Step 3

Technical data on the basic, connection and installation components can be found on the specified pages. Further accessories for the selected drives, for example proximity sensors, centring sleeves, etc. are documented with the drives.

Linear gantries

Selection aid for basic, connection and installation components

FESTO

Z-axis				
System type	Mono 25	Mono 40	Duo 25	Duo 40
				
Pneumatic drives	Type			
SLT-16	HMBSZ-SLT-7 5 / 3.3-152	–	–	–
SLT-20	–	HMBSZ-SLT-7 5 / 3.3-152	HMBSZ-SLT-7 5 / 3.3-152	–
SLT-25	–	–	HMBSZ-SLT-7 5 / 3.3-152	–
HMPL-16	HMBSZ-HMPL-5 HMBSZ-HMPL-6 5 / 3.3-153	–	–	–
HMPL-20	–	HMBSZ-HMPL-5 HMBSZ-HMPL-6 5 / 3.3-153	HMBSZ-HMPL-5 HMBSZ-HMPL-6 5 / 3.3-153	–
HMP-16	–	HMBSZ-HMP-4 5 / 3.3-154	HMBSZ-HMP-4 5 / 3.3-154	–
HMP-20	–	–	HMBSZ-HMP-5 5 / 3.3-154	–
HMP-25	–	–	–	HMBSZ-HMP-6 5 / 3.3-154
Electrical drives	Type			
DGEA-18	HMBSZ-DGEA-1 5 / 3.3-155	HMBSZ-DGEA-1 5 / 3.3-155	HMBSZ-DGEA-1 5 / 3.3-155	–
DGEA-25	–	–	HMBSZ-DGEA-2 5 / 3.3-155	HMBSZ-DGEA-3 5 / 3.3-155
DGE-25-SP	–	HMBSZ-DGE-1 5 / 3.3-156	HMBSZ-DGE-1 5 / 3.3-156	–
DGE-40-SP	–	–	HMBSZ-DGE-2 5 / 3.3-156	HMBSZ-DGE-3 5 / 3.3-156

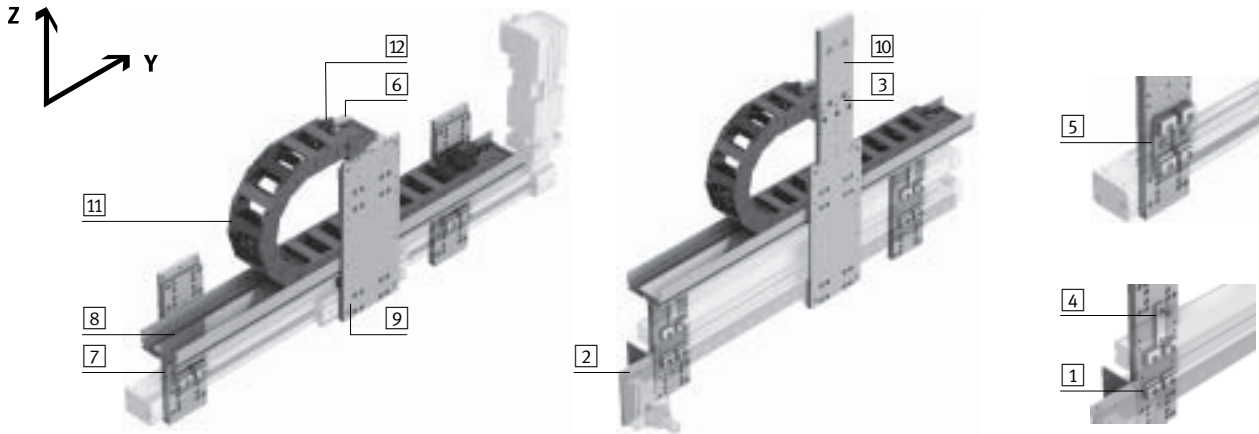
Linear gantries

Y modules

FESTO

Mono system

Toothed belt axes DGE, linear drives DGC, DGPL



Bill of materials										
Type		HMBSY-LP-M25-1		HMBSY-LP-M25-2		HMBSY-LP-M25-3		HMBSY-LP-M25-4		
For drives		DGPL-25 DGE-25-SP-KF DGE-25-ZR-KF		DGC-25		DGPL-25 with SPC11		DGE-25-ZR-RF		
System type		Mono 25								
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	→ Page
1	2 ¹⁾	150 736		–		150 736		150 736		Volume 1
		MUP-18/25				MUP-18/25		MUP-18/25		
1	1 ¹⁾	–		531 753		–		–		Volume 1
				MUC-25						
2	1	–		–		539 367		–		5 / 3.3-201
3	1	–		–		539 364		–		5 / 3.3-226
						HMIM-LP				
4	1 ¹⁾	–		–		539 973		–		5 / 3.3-200
5	2 ¹⁾	–		–		–		539 362		5 / 3.3-200
								HMVO-RF25		
6	1	539 366		539 366		539 366		539 366		5 / 3.3-226
7	2 ²⁾	539 972		539 972		539 972		539 972		5 / 3.3-196
		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		5 / 3.3-225
9	1	539 368		539 368		539 368		539 368		5 / 3.3-198
		HMVS-DL25		HMVS-DL25		HMVS-DL25		HMVS-DL25		
10	1	–		–		539 365		–		5 / 3.3-224
10						HMIZB-E03				
	1	IGUS E2 medium 240.05.100 and 211 or KABELSCHLEPP MC 0320.60-01-100 and TS O/n _T 2								–
12	1	IGUS E2 medium 2050.12.PZB or KABELSCHLEPP MC FA/MA								–

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

2) Quantity with stroke ≤ 500 mm. With stroke > 500 mm, a basic kit HMVM-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.

3) Length depends on the stroke of the drive

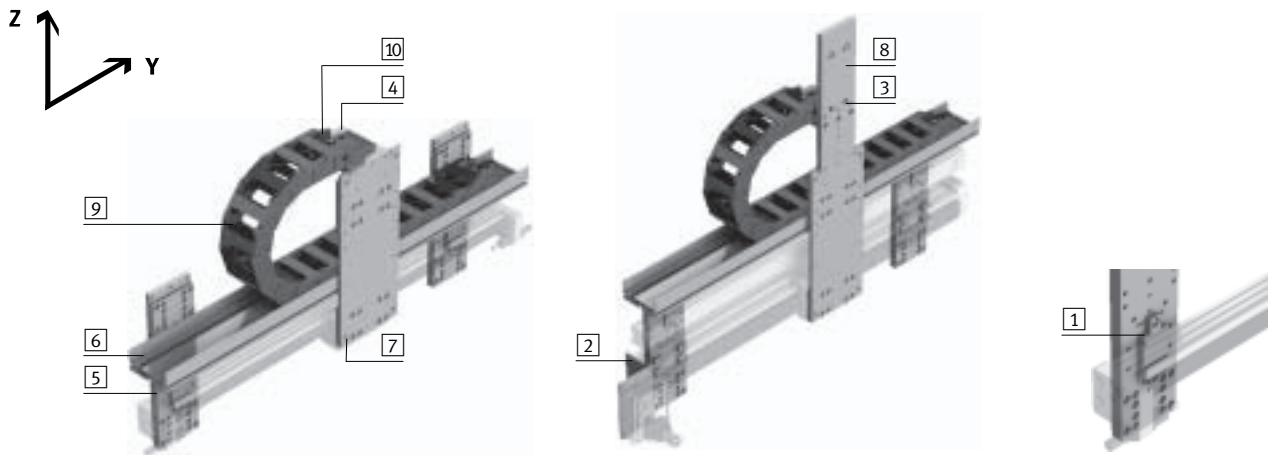
Linear gantries

Y modules

FESTO

Mono system

Toothed belt axes DGE, linear drives DGC, DGPL



Bill of materials								
Type		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						
System type		Mono 40						
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	➔ Page
[1]	1 ¹⁾	–		531 755 MUC-40		–		Volume 1
[2]	1	–		–		539 367 HMVW-SPC		5 / 3.3-201
[3]	1	–		–		539 364 HMIM-LP		5 / 3.3-226
[4]	1	539 366 HMIO-AP-1		540 121 HMIO-AP-2		539 366 HMIO-AP-1		5 / 3.3-226
[5]	2 ²⁾	539 972 HMVM-LP-DL25/40		539 972 HMVM-LP-DL25/40		539 972 HMVM-LP-DL25/40		5 / 3.3-196
[6]	1 ³⁾	539 378 HMIA-E05		539 378 HMIA-E05		539 378 HMIA-E05		5 / 3.3-225
[7]	1	539 369 HMVS-DL40		539 369 HMVS-DL40		539 369 HMVS-DL40		5 / 3.3-198
[8]	1	–		–		539 365 HMIZB-E03		5 / 3.3-224
[9]	1	IGUS E2 medium 240.05.100 and 211 or KABELSCHLEPP MC 0320.60-01-100 and TS O/nT2						–
[10]	1	IGUS E2 medium 2050.12.PZB or KABELSCHLEPP MC FA/MA						–

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

2) Quantity with stroke ≤ 500 mm. With stroke > 500 mm, a basic kit HMVM-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.

3) Length depends on the stroke of the drive

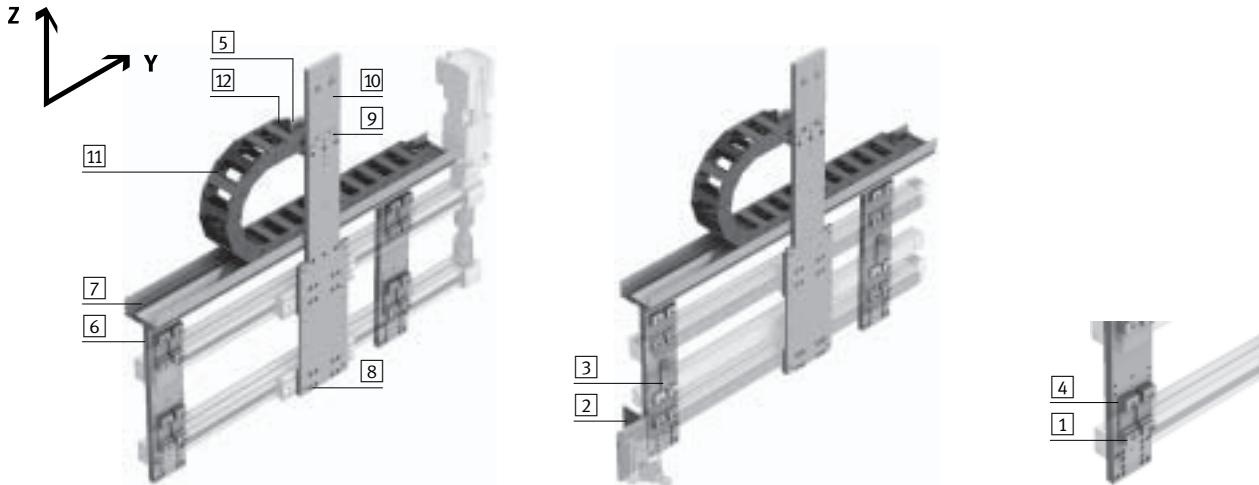
Linear gantries

Y modules

FESTO

Duo system

Toothed belt axes DGE, linear drives DGC, DGPL



Bill of materials										
Type		HMBSY-LP-D25-1		HMBSY-LP-D25-2		HMBSY-LP-D25-3		HMBSY-LP-D25-4		→ Page
For drives		DGPL-25 DGE-25-SP-KF DGE-25-ZR-KF		DGC-25		DGPL-25 with SPC11		DGE-25-ZR-RF		
System type		Duo 25								
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	
1	4 ¹⁾	150 736		–		150 736		150 736		Volume 1
		MUP-18/25				MUP-18/25		MUP-18/25		
2	2 ¹⁾	–		531 753		–		–		Volume 1
				MUC-25						
2	1	–		–		539 367		–		5 / 3.3-201
3	1 ¹⁾	–		–		539 973		–		5 / 3.3-200
						HMVO-POT				
4	4 ¹⁾	–		–		–		539 362		5 / 3.3-200
								HMVO-RF25		
5	1	539 366		539 366		539 366		539 366		5 / 3.3-226
6	2 ²⁾	539 971		539 971		539 971		539 971		5 / 3.3-196
		HMVD-LP-DL25/40		HMVD-LP-DL25/40		HMVD-LP-DL25/40		HMVD-LP-DL25/40		
7	1 ³⁾	539 378		539 378		539 378		539 378		5 / 3.3-225
8	1	539 368		539 368		539 368		539 368		5 / 3.3-198
		HMVS-DL25		HMVS-DL25		HMVS-DL25		HMVS-DL25		
9	1	539 363		539 363		539 363		539 363		5 / 3.3-226
		HMID-LP		HMID-LP		HMID-LP		HMID-LP		
10	1	539 365		539 365		539 365		539 365		5 / 3.3-224
		HMIZB-E03		HMIZB-E03		HMIZB-E03		HMIZB-E03		
11	1	IGUS E2 medium 240.05.100 and 211 or KABELSCHLEPP MC 0320.60-01-100 and TS O/n _T 2								–
12	1	IGUS E2 medium 2050.12.PZB or KABELSCHLEPP MC FA/MA								–

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

2) Quantity with stroke ≤ 500 mm. With stroke > 500 mm, a basic kit HMVD-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.

3) Length depends on the stroke of the drive

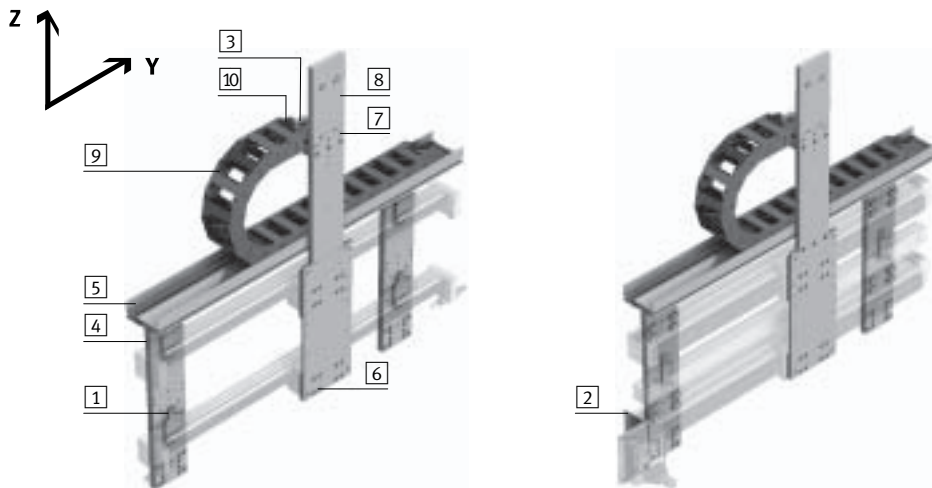
Linear gantries

Y modules

FESTO

Duo system

Toothed belt axes DGE, linear drives DGC, DGPL



Bill of materials								
Type		HMBSY-LP-D40-1		HMBSY-LP-D40-2		HMBSY-LP-D40-3		
For drives		DGPL-40 DGE-40-SP-KF DGE-40-ZR-KF DGE-40-ZR-RF		DGC-40		DGPL-40 with SPC11		
System type		Duo 40						
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	
[1]	2 ¹⁾	–		531 755 MUC-40		–		Volume 1
[2]	1	–		–		539 367 HMVW-SPC		5 / 3.3-201
[3]	1	539 366 HMIO-AP-1		540 121 HMIO-AP-2		539 366 HMIO-AP-1		5 / 3.3-226
[4]	2 ²⁾	539 971 HMVD-LP-DL25/40		539 971 HMVD-LP-DL25/40		539 971 HMVD-LP-DL25/40		5 / 3.3-196
[5]	1 ³⁾	539 378 HMIA-E05		539 378 HMIA-E05		539 378 HMIA-E05		5 / 3.3-225
[6]	1	539 369 HMVS-DL40		539 369 HMVS-DL40		539 369 HMVS-DL40		5 / 3.3-198
[7]	1	539 363 HMID-LP		539 363 HMID-LP		539 363 HMID-LP		5 / 3.3-226
[8]	1	539 365 HMIZB-E03		539 365 HMIZB-E03		539 365 HMIZB-E03		5 / 3.3-224
[9]	1	IGUS E2 medium 240.05.100 and 211 or KABELSCHLEPP MC 0320.60-01-100 and TS O/n _T 2						–
[10]	1	IGUS E2 medium 2050.12.PZB or KABELSCHLEPP MC FA/MA						–

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

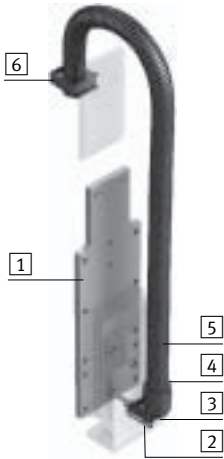
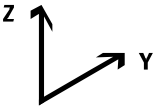
2) Quantity with stroke ≤ 500 mm. With stroke > 500 mm, a basic kit HMVD-LP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.

3) Length depends on the stroke of the drive

Linear gantries

Z modules

Mono/Duo system Mini slides SLT



Bill of materials							
Type		HMBSZ-SLT-7					
For drives		SLT-16		SLT-20		SLT-25	
System type		Mono 25		Mono 40 Duo 25		Duo 25	
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
1	1	539 373	HMVZ-2	539 373	HMVZ-2	539 373	HMVZ-2
2	1	193 124	HMZAS-PG-21	193 124	HMZAS-PG-21	193 124	HMZAS-PG-21
3	1	177 599	MKM-PG-21	177 599	MKM-PG-21	177 599	MKM-PG-21
4	1	177 572	MKRV-23-PG-21	177 572	MKRV-23-PG-21	177 572	MKRV-23-PG-21
5	1 ¹⁾	177 567	MKR-23-PG-21	177 567	MKR-23-PG-21	177 567	MKR-23-PG-21
6	1	192 290	MKRS-23-B	192 290	MKRS-23-B	192 290	MKRS-23-B

1) Length depends on the stroke of the drive

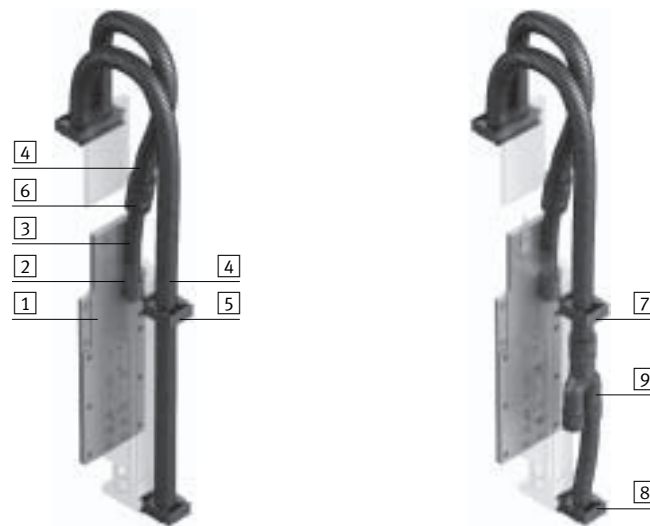
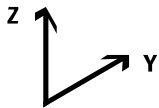
Linear gantries

Z modules

FESTO

Mono/Duo system

Linear modules HMPL



Bill of materials							
Type		HMBSZ-HMPL-5		HMBSZ-HMPL-6			
For drives		HMPL-16		HMPL-20			
		without intermediate position		with intermediate position			
System type		Mono 25		Mono 40 Duo 25			
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
1	1	539 375	HMVZ-4	539 375	HMVZ-4	539 375	HMVZ-4
2	1	177 571	MKRV-16,5-PG-16	177 571	MKRV-16,5-PG-16	177 571	MKRV-16,5-PG-16
3	1 ¹⁾	177 566	MKR-16,5-PG-16	177 566	MKR-16,5-PG-16	177 566	MKR-16,5-PG-16
4	1 ²⁾	177 567	MKR-23-PG-21	177 567	MKR-23-PG-21	177 567	MKR-23-PG-21
5	4 ³⁾	192 290	MKRS-23-B	192 290	MKRS-23-B	–	–
6	1	194 321	MKRT-23-16,5	194 321	MKRT-23-16,5	194 321	MKRT-23-16,5
7	3 ³⁾	–	–	192 290	MKRS-23-B	192 290	MKRS-23-B
8	1	–	–	192 289	MKRS-16,5-B	192 289	MKRS-16,5-B
9	1	–	–	193 946	MKY-PG-21-2PG-16	193 946	MKY-PG-21-2PG-16

1) Length 200 mm

2) Length depends on the stroke of the drive, 2 conduits are required with an intermediate position.

3) In order to be able to mount the retaining clip MKRS, a clamping component (2x code J) must be selected as an accessory in the order for the linear module HMPL.

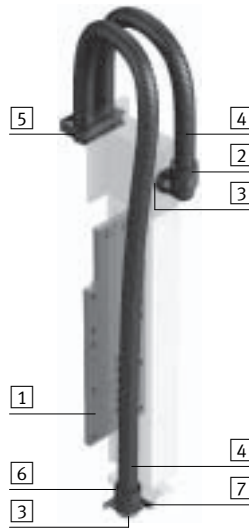
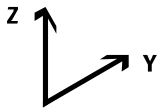
Linear gantries

Z modules

FESTO

Mono/Duo system

Linear modules HMP



Bill of materials							
Type		HMBSZ-HMP-4		HMBSZ-HMP-5		HMBSZ-HMP-6	
For drives		HMP-16		HMP-20		HMP-25	
System type		Mono 40 Duo 25		Duo 25		Duo 40	
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
[1]	1	539 374	HMVZ-3	539 374	HMVZ-3	539 377	HMVZ-6
[2]	1	177 577	MKRL-23-PG-21	177 578	MKRL-29-PG-29	177 578	MKRL-29-PG-29
[3]	2	177 599	MKM-PG-21	177 600	MKM-PG-29	177 600	MKM-PG-29
[4]	1 ¹⁾	177 567	MKR-23-PG-21	177 568	MKR-29-PG-29	177 568	MKR-29-PG-29
[5]	2	192 290	MKRS-23-B	192 291	MKRS-29-B	192 291	MKRS-29-B
[6]	1	177 572	MKRV-23-PG-21	177 573	MKRV-29-PG-29	177 573	MKRV-29-PG-29
[7]	1	193 124	HMZAS-PG-21	177 603	HMZAS-PG-29	177 603	HMZAS-PG-29

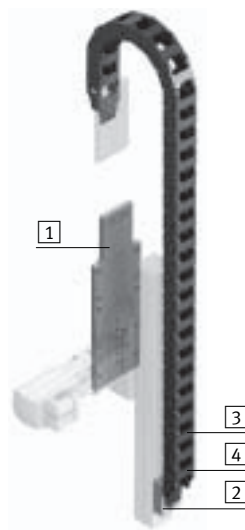
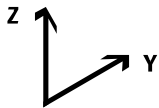
1) Length depends on the stroke of the drive

Linear gantries

Z modules

FESTO

Mono/Duo system
Cantilever axes DGEA



Bill of materials							
Type		HMBSZ-DGEA-1		HMBSZ-DGEA-2		HMBSZ-DGEA-3	
For drives		DGEA-18		DGEA-25		DGEA-25	
System type		Mono 25 Mono 40 Duo 25		Duo 25		Duo 40	
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
1	1	539 374	HMVZ-3	539 375	HMVZ-4	539 377	HMVZ-6
2	1	539 370	HMIZF-E03-DA18	539 371	HMIZF-E03-DA25	539 371	HMIZF-E03-DA25
3	1 ¹⁾	IGUS E2 medium 240.03.075.0 and 211 or KABELSCHLEPP MC 0320.40-01-77 and TS 0/n _T 2					–
4	1	IGUS E2 medium 2030.12.PZB or KABELSCHLEPP MC FA/MA					–

1) Length depends on the stroke of the drive

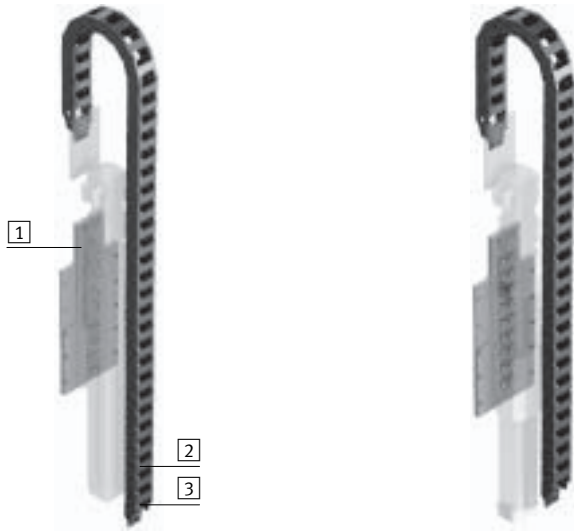
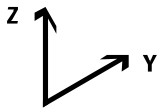
Linear gantries

Z modules

FESTO

Mono/Duo system

Spindle axes DGE



Bill of materials								
Type		HMBSZ-DGE-1		HMBSZ-DGE-2		HMBSZ-DGE-3		
For drives		DGE-25-SP		DGE-40-SP		DGE-40-SP		
System type		Mono 40 Duo 25		Duo 25		Duo 40		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	→ Page
1	1	539 374 HMVZ-3		539 375 HMVZ-4		539 377 HMVZ-6		5 / 3.3-199
2	1 ¹⁾	IGUS E2 medium 240.03.075.0 and 211 or KABELSCHLEPP MC 0320.40-01-77 and TS O/n _T 2						–
3	1	IGUS E2 medium 2030.12.PZB or KABELSCHLEPP MC FA/MA						–

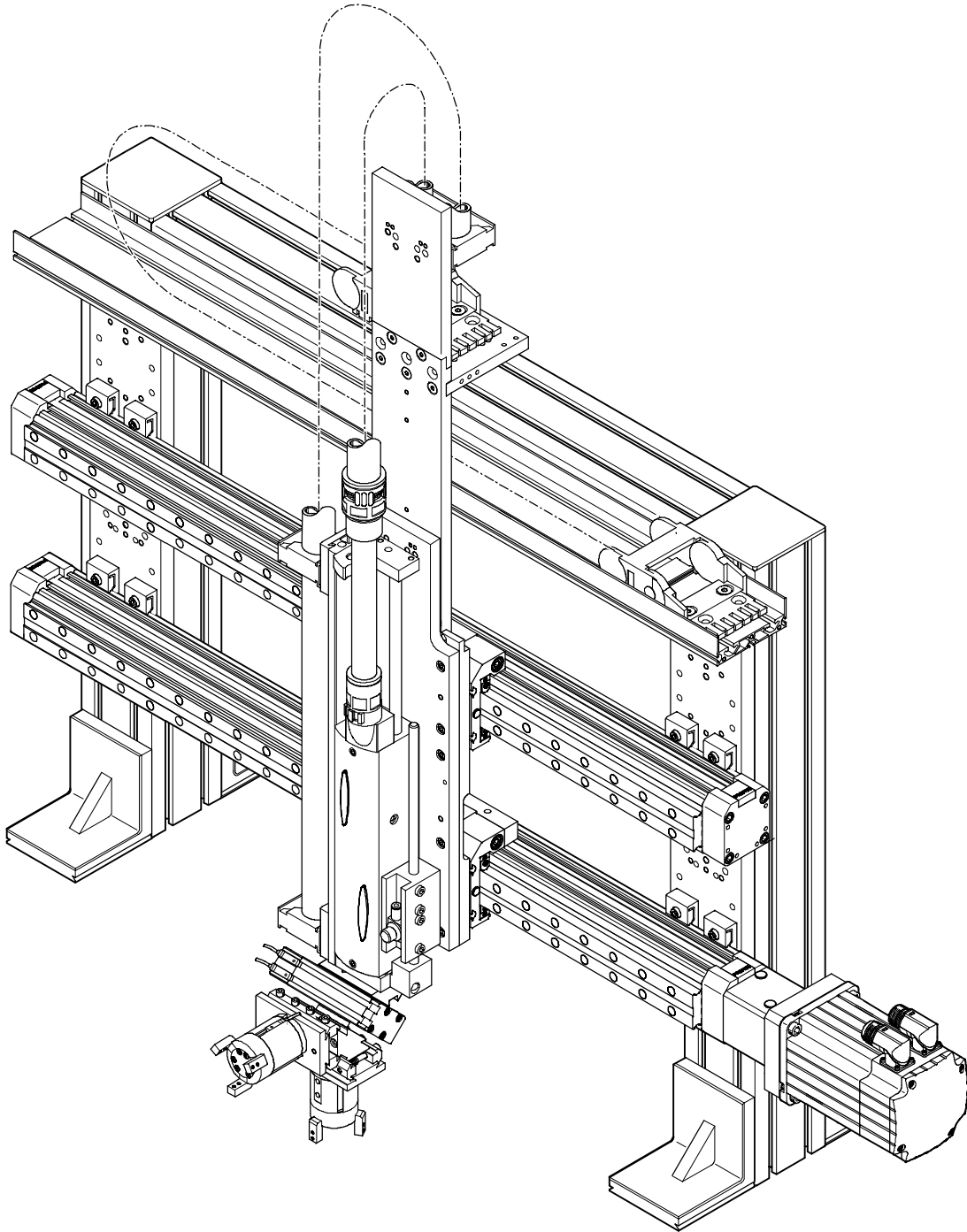
1) Length depends on the stroke of the drive

Linear gantries

System example

FESTO

Duo system DG/HMPL



System components
Multi-axis modular system

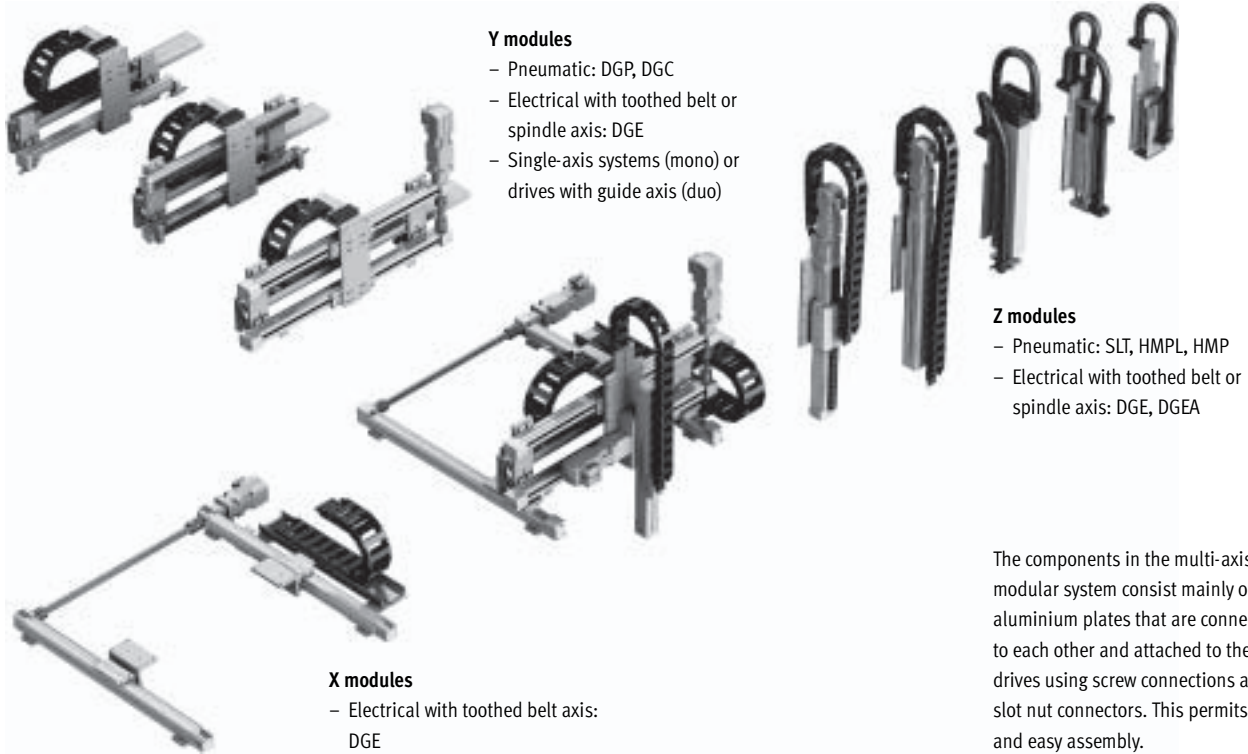
3.3

3-Dimensional gantries

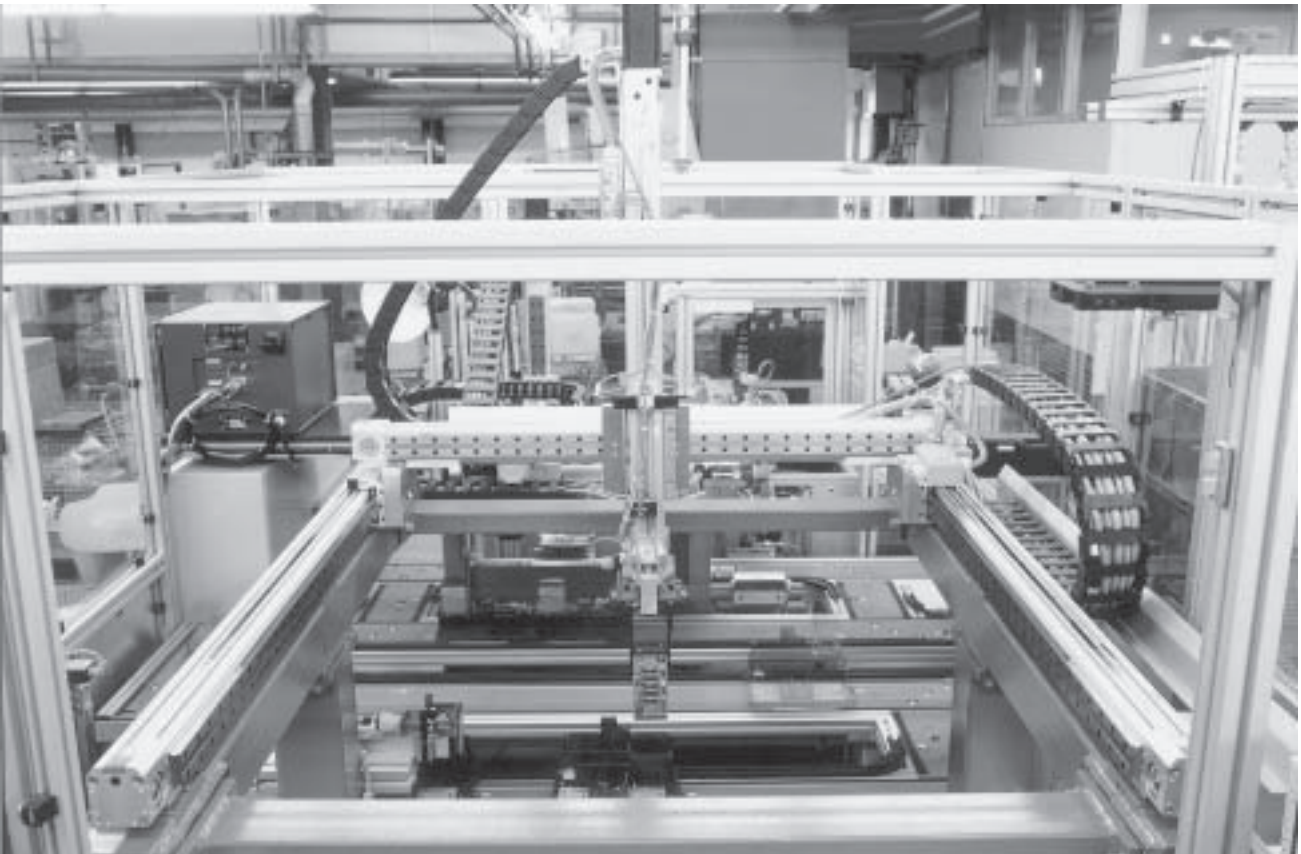
Key features

FESTO

X, Y and Z modules



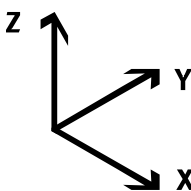
Application

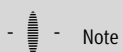


3-Dimensional gantries

Product range overview

FESTO

Selection aid					
System type	Mono 25	Mono 40	Duo 25		Duo 40
					
X-axis	DGE-25-ZR	DGE-40-ZR	DGE-25-ZR	DGE-40-ZR	DGE-40-ZR
Drive function	Electrical				
Options	Ball bearing or roller guide				
Y-axis	DG...-25	DG...-40	DG...-25		DG...-40
					
Drive function	Pneumatic and electrical				
Options	Spindle or toothed belt axis				
Z-axis	SLT-16 HMPL-16	SLT-20 HMPL-20 HMP-16	SLT-25 HMP-20	HMP-25	
Drive function	Pneumatic				
Options	Intermediate position with HMPL	Intermediate position with HMPL, HMP		Intermediate position with HMP	
Z-axis	DGEA-18	DGEA-18 DGE-25-SP-KF	DGEA-25 DGE-40-SP-KF	DGEA-25 DGE-40-SP-KF	
Drive function	Electrical				
Options	–	Spindle or toothed belt axis		Spindle or toothed belt axis	
Working load [kg]					
	1	■	■	■	■
	2	■	■	■	■
	3	–	■	■	■
	4	–	■	■	■
	6	–	–	■	■
	10	–	–	–	■
→ Page	5 / 3.3-160				



Note

Applicable stroke ranges:

→ Volume 1

3-Dimensional gantries

Selection aid for basic, connection and installation components

FESTO

X-axis					
System type		Mono 25	Mono 40	Duo 25	Duo 40
					
Electrical drives		Type			
DGE-25	-ZR-KF	HMBSX-RP/FP-25-1 5 / 3.3-163	HMBSX-RP/FP-25-1 5 / 3.3-163	HMBSX-RP/FP-25-1 5 / 3.3-163	–
	-ZR-RF	HMBSX-RP/FP-25-2 5 / 3.3-163	HMBSX-RP/FP-25-2 5 / 3.3-163	HMBSX-RP/FP-25-2 5 / 3.3-163	–
DGE-40	-ZR-KF	–	HMBSX-RP/FP-40-1 5 / 3.3-163	HMBSX-RP/FP-40-1 5 / 3.3-163	HMBSX-RP/FP-40-1 5 / 3.3-163
	-ZR-RF	–	HMBSX-RP/FP-40-2 5 / 3.3-163	HMBSX-RP/FP-40-2 5 / 3.3-163	HMBSX-RP/FP-40-2 5 / 3.3-163

Selection example:

Project engineering produced the following drive combination:

Step 1

Define the drive type in the selection aids for the X-, Y- or Z-axis. The associated bill of materials can be found on the specified page.

Step 2

The necessary basic, connection and installation components can be found in the bill of materials on the specified page.

Step 3

Technical data on the basic, connection and installation components can be found on the specified pages. Further accessories for the selected drives, for example proximity sensors, centring sleeves, etc. are documented with the drives.

X-axis: DGE-40-ZR-KF

X-axis: HMBSX-RP/FP-40-1
→ 5 / 3.3-163

X-axis: HMBSX-RP/FP-40-1

Y-axis: Mono 40 system with DGC-40

Y-axis: HMBSY-RP/FP-M40-2
→ 5 / 3.3-164

Y-axis: HMBSY-RP/FP-M40-2

Z-axis: HMPL-20 without intermediate position

Z-axis: HMBSZ-HMPL-5 or 6
→ 5 / 3.3-167

Z-axis: HMBSZ-HMPL-5

3-Dimensional gantries

Selection aid for basic, connection and installation components

FESTO

Y-axis				
System type	Mono 25	Mono 40	Duo 25	Duo 40
				
Pneumatic drives	Type			
DGPL-25	HMBSY-RP/FP-M25-1 5 / 3.3-164	–	HMBSY-RP/FP-D25-1 5 / 3.3-165	–
DGC-25	HMBSY-RP/FP-M25-2 5 / 3.3-164	–	HMBSY-RP/FP-D25-2 5 / 3.3-165	–
DGPL-40	–	HMBSY-RP/FP-M40-1 5 / 3.3-164	–	HMBSY-RP/FP-D40-1 5 / 3.3-165
DGC-40	–	HMBSY-RP/FP-M40-2 5 / 3.3-164	–	HMBSY-RP/FP-D40-2 5 / 3.3-165
Electrical drives	Type			
DGE-25 -SP-KF -ZR-KF -ZR-RF	HMBSY-RP/FP-M25-1 5 / 3.3-164	–	HMBSY-RP/FP-D25-1 5 / 3.3-165	–
DGE-40 -SP-KF -ZR-KF -ZR-RF	–	HMBSY-RP/FP-M40-1 5 / 3.3-164	–	HMBSY-RP/FP-D40-1 5 / 3.3-165

3-Dimensional gantries

Selection aid for basic, connection and installation components

FESTO



Z-axis				
System type	Mono 25	Mono 40	Duo 25	Duo 40
Pneumatic drives	Type			
SLT-16	HMBSZ-SLT-7 5 / 3.3-166	–	–	–
SLT-20	–	HMBSZ-SLT-7 5 / 3.3-166	HMBSZ-SLT-7 5 / 3.3-166	–
SLT-25	–	–	HMBSZ-SLT-7 5 / 3.3-166	–
HMPL-16	HMBSZ-HMPL-5 HMBSZ-HMPL-6 5 / 3.3-167	–	–	–
HMPL-20	–	HMBSZ-HMPL-5 HMBSZ-HMPL-6 5 / 3.3-167	HMBSZ-HMPL-5 HMBSZ-HMPL-6 5 / 3.3-167	–
HMP-16	–	HMBSZ-HMP-4 5 / 3.3-168	HMBSZ-HMP-4 5 / 3.3-168	–
HMP-20	–	–	HMBSZ-HMP-5 5 / 3.3-168	–
HMP-25	–	–	–	HMBSZ-HMP-6 5 / 3.3-168
Electrical drives	Type			
DGEA-18	HMBSZ-DGEA-1 5 / 3.3-169	HMBSZ-DGEA-1 5 / 3.3-169	HMBSZ-DGEA-1 5 / 3.3-169	–
DGEA-25	–	–	HMBSZ-DGEA-2 5 / 3.3-169	HMBSZ-DGEA-3 5 / 3.3-169
DGE-25-SP	–	HMBSZ-DGE-1 5 / 3.3-170	HMBSZ-DGE-1 5 / 3.3-170	–
DGE-40-SP	–	–	HMBSZ-DGE-2 5 / 3.3-170	HMBSZ-DGE-3 5 / 3.3-170

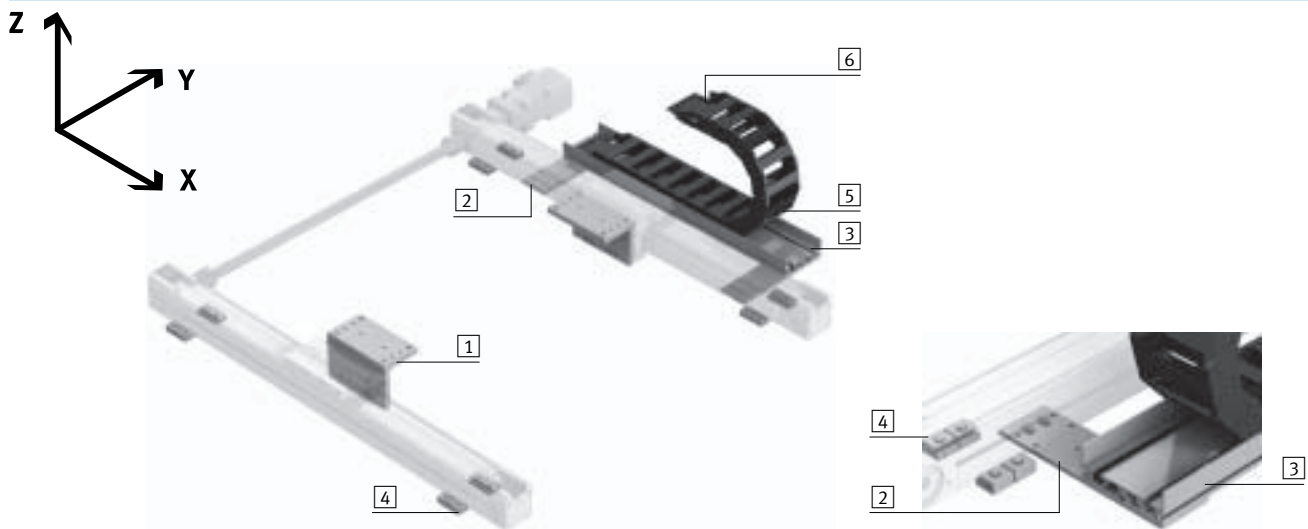
3-Dimensional gantries

X modules

FESTO

Basic system

Toothed belt axes DGE



Bill of materials										
Type		HMBSX-RP/FP-25-1		HMBSX-RP/FP-25-2		HMBSX-RP/FP-40-1		HMBSX-RP/FP-40-2		➔ Page
For drives		DGE-25-ZR-KF		DGE-25-ZR-RF		DGE-40-ZR-KF		DGE-40-ZR-RF		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	
[1]	1	539 651 HMVW-DL25		539 652 HMVS-RF25		540 325 HMVW-DL40		539 653 HMVS-RF40		5 / 3.3-193
[2]	2 ¹⁾	539 654 HMIXB-RP/FP		539 654 HMIXB-RP/FP		539 654 HMIXB-RP/FP		539 654 HMIXB-RP/FP		5 / 3.3-227
[3]	1 ²⁾	539 379 HMIA-E07		539 379 HMIA-E07		539 379 HMIA-E07		539 379 HMIA-E07		5 / 3.3-225
[4]	2 ³⁾	150 736 MUP-18/25		150 736 MUP-18/25		–		–		Volume 1
	1 ³⁾	–		–		150 738 MUP-40		150 738 MUP-40		Volume 1
[5]	1 ²⁾	IGUS E2 medium 240.07.100.0 and 211 or KABELSCHLEPP MC 0320.80-01 and TS O/η _T 2								–
[6]	1	IGUS E2 medium 2070.12.PZB or KABELSCHLEPP MC FA/MA								–

1) Quantity with stroke ≤ 500 mm. With stroke > 500 mm, an installation kit HMIXB-RP/FP must be additionally ordered per 500 mm stroke or part thereof.

2) Length depends on the stroke of the drive

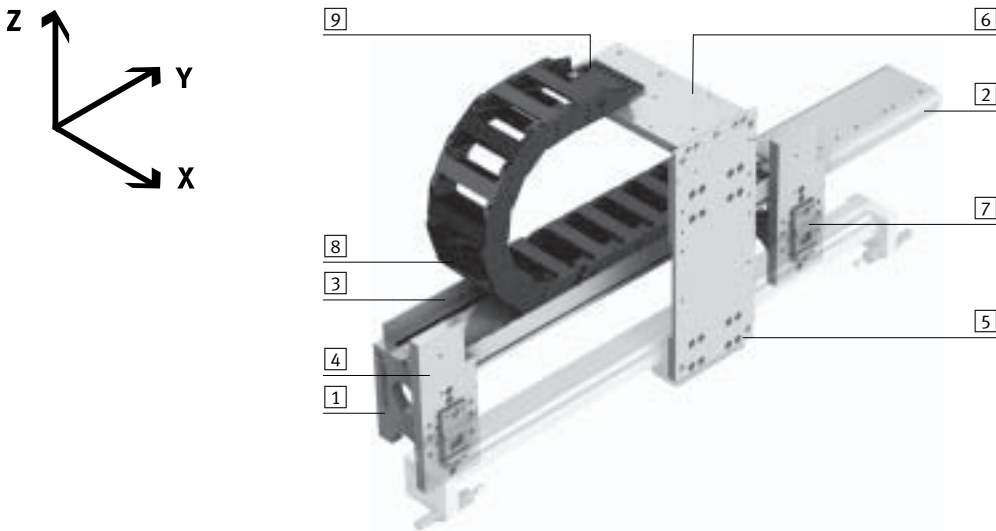
3) Every 500 mm per axis

3-Dimensional gantries

Y modules

FESTO

Mono system
Toothed belt/spindle axes DGE, linear drives DGC, DGPL



Bill of materials										
Type		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-25-ZR-RF								
DGPL-25				DGPL-40						
System type		Mono 25				Mono 40				
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	➔ Page
[1]	2	539 657		539 657		539 657		539 657		5 / 3.3-195
		HMVV-RP/FP		HMVV-RP/FP		HMVV-RP/FP		HMVV-RP/FP		
[2]	1	539 658		539 658		539 658		539 658		5 / 3.3-195
		HMIXF-RP/FP		HMIXF-RP/FP		HMIXF-RP/FP		HMIXF-RP/FP		
[3]	1 ¹⁾	539 379		539 379		539 379		539 379		5 / 3.3-225
		HMIA-E07		HMIA-E07		HMIA-E07		HMIA-E07		
[4]	2 ³⁾	539 656		539 656		539 656		539 656		5 / 3.3-197
		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		5 / 3.3-198
		HMVS-DL25		HMVS-DL25		HMVS-DL40		HMVS-DL40		
[6]	1	539 659		539 659		539 660		539 660		5 / 3.3-228
		HMIYF-RF/DL25		HMIYF-RF/DL25		HMIYF-RF/DL40		HMIYF-RF/DL40		
[7]	2 ²⁾	150 736		–		–		–		Volume 1
		MUP-18/25								
	1 ²⁾	–		531 753		–		531 755		Volume 1
				MUC-25				MUC-40		
	1 ²⁾	–		–		150 738		–		Volume 1
						MUP-40				
[8]	1 ¹⁾	IGUS E2 medium 240.07.100.0 and 211 or KABELSCHLEPP MC 0320.80-01 and TS O/n ₇ 2								–
[9]	1	IGUS E2 medium 2070.12.PZB or KABELSCHLEPP MC FA/MA								–

1) Length depends on the stroke of the drive

2) Per basic kit HMVM-RP/FP-DL25/40

3) Quantity with stroke ≤ 500 mm. With stroke > 500 mm, a basic kit HMVM-RP/FP-DL25/40 must be additionally ordered per 500 mm stroke or part thereof.

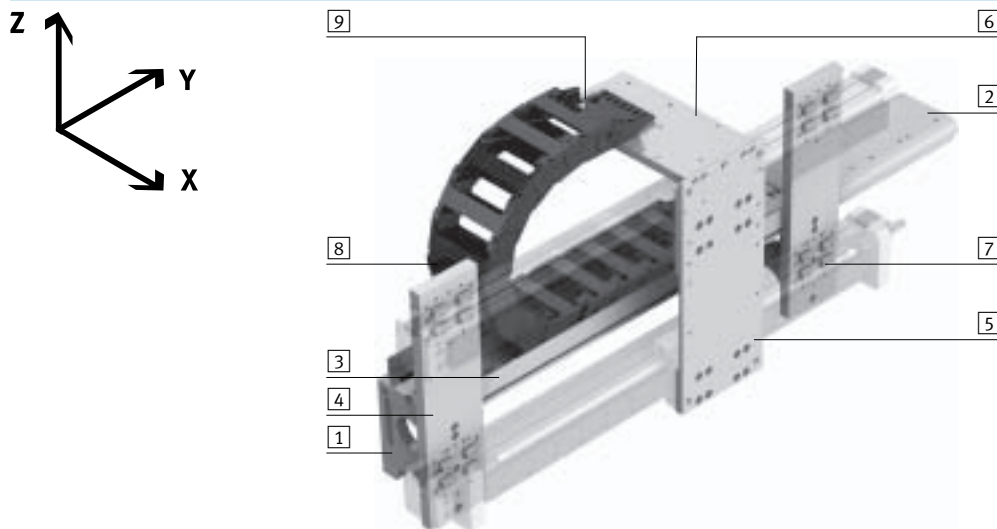
3-Dimensional gantries

Y modules

FESTO

Duo system

Toothed belt/spindle axes DGE, linear drives DGC, DGPL



Bill of materials										
Type		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 DGE-25-ZR-KF DGE-25-ZR-RF DGPL-25		DGC-25		DGE-40-SP-KF DGE-40-ZR-KF DGE-40-ZR-RF DGPL-40		DGC-40		
System type		Duo 25				Duo 40				
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	
[1]	2	539 657	HMVV-RP/FP	539 657	HMVV-RP/FP	539 657	HMVV-RP/FP	539 657	HMVV-RP/FP	5 / 3.3-195
[2]	1	539 658	HMIXF-RP/FP	539 658	HMIXF-RP/FP	539 658	HMIXF-RP/FP	539 658	HMIXF-RP/FP	5 / 3.3-195
[3]	1 ¹⁾	539 379	HMIA-E07	539 379	HMIA-E07	539 379	HMIA-E07	539 379	HMIA-E07	5 / 3.3-225
[4]	2 ³⁾	539 655	HMVD-RP/FP-DL25/40	539 655	HMVD-RP/FP-DL25/40	539 655	HMVD-RP/FP-DL25/40	539 655	HMVD-RP/FP-DL25/40	5 / 3.3-197
[5]	1	539 368	HMVS-DL25	539 368	HMVS-DL25	539 369	HMVS-DL40	539 369	HMVS-DL40	5 / 3.3-198
[6]	1	539 659	HMIYF-RF/DL25	539 659	HMIYF-RF/DL25	539 660	HMIYF-RF/DL40	539 660	HMIYF-RF/DL40	5 / 3.3-228
[7]	4 ²⁾	150 736	MUP-18/25	–		–		–		Volume 1
	2	–		531 753	MUC-25	–		531 755	MUC-40	Volume 1
[8]	1 ¹⁾	IGUS E2 medium 240.07.100.0 and 211 or KABELSCHLEPP MC 0320.80-01 and TS O/n ₇ 2								–
[9]	1	IGUS E2 medium 2070.12.PZB or KABELSCHLEPP MC FA/MA								–

1) Length depends on the stroke of the drive

2) Per basic kit HMVD-RP/FP-DL25/40

3) 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.

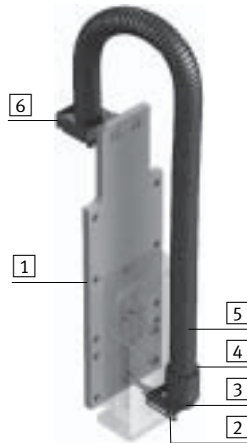
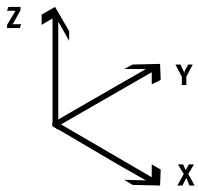
3-Dimensional gantries

Z modules

FESTO

Mono/Duo system

Mini slides SLT



Bill of materials							
Type		HMBSZ-SLT-7					
For drives		SLT-16		SLT-20		SLT-25	
System type		Mono 25		Mono 40 Duo 25		Duo 25	
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
1	1	539 373	HMVZ-2	539 373	HMVZ-2	539 373	HMVZ-2
2	1	193 124	HMZAS-PG-21	193 124	HMZAS-PG-21	193 124	HMZAS-PG-21
3	1	177 599	MKM-PG-21	177 599	MKM-PG-21	177 599	MKM-PG-21
4	1	177 572	MKRV-23-PG-21	177 572	MKRV-23-PG-21	177 572	MKRV-23-PG-21
5	1 ¹⁾	177 567	MKR-23-PG-21	177 567	MKR-23-PG-21	177 567	MKR-23-PG-21
6	1	192 290	MKRS-23-B	192 290	MKRS-23-B	192 290	MKRS-23-B

1) Length depends on the stroke of the drive

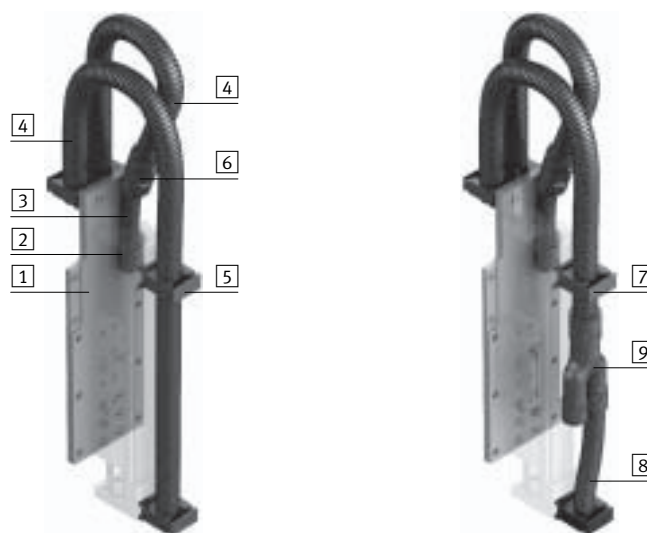
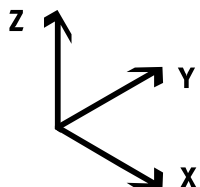
3-Dimensional gantries

Z modules

FESTO

Mono/Duo system

Linear modules HMPL



Bill of materials								
Type		HMBSZ-HMPL-5			HMBSZ-HMPL-6			
For drives		HMPL-16	HMPL-20		HMPL-16	HMPL-20		
		without intermediate position			with intermediate position			
System type		Mono 25	Mono 40 Duo 25		Mono 25	Mono 40 Duo 25		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	➔ Page
[1]	1	539 375		539 375		539 375		5 / 3.3-199
		HMVZ-4		HMVZ-4		HMVZ-4		
[2]	1	177 571		177 571		177 571		5 / 3.3-212
		MKRV-16,5-PG-16		MKRV-16,5-PG-16		MKRV-16,5-PG-16		
[3]	1 ¹⁾	177 566		177 566		177 566		5 / 3.3-210
		MKR-16,5-PG-16		MKR-16,5-PG-16		MKR-16,5-PG-16		
[4]	1 ²⁾	177 567		177 567		177 567		
		MKR-23-PG-21		MKR-23-PG-21		MKR-23-PG-21		
[5]	4 ³⁾	192 290		192 290		–		5 / 3.3-217
		MKRS-23-B		MKRS-23-B				
[6]	1	194 321		194 321		194 321		5 / 3.3-214
		MKRT-23-16,5		MKRT-23-16,5		MKRT-23-16,5		
[7]	3 ³⁾	–		–		192 290		5 / 3.3-217
						MKRS-23-B		
[8]	1	–		–		192 289		
						MKRS-16,5-B		
[9]	1	–		–		193 946		5 / 3.3-214
						MKY-PG-21-2PG-16		
						MKY-PG-21-2PG-16		

1) Length 200 mm

2) Length depends on the stroke of the drive, 2 conduits are required with an intermediate position.

3) In order to be able to mount the retaining clip MKRS, a clamping component (2x code J) must be selected as an accessory in the order for the linear module HMPL.

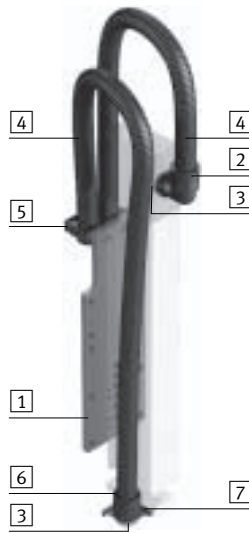
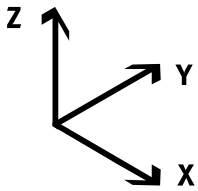
3-Dimensional gantries

Z modules

FESTO

Mono/Duo system

Linear modules HMP



Bill of materials							
Type		HMBSZ-HMP-4		HMBSZ-HMP-5		HMBSZ-HMP-6	
For drives		HMP-16		HMP-20		HMP-25	
System type		Mono 40 Duo 25		Duo 25		Duo 40	
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
[1]	1	539 374	HMVZ-3	539 374	HMVZ-3	539 377	HMVZ-6
[2]	1	177 577	MKRL-23-PG-21	177 578	MKRL-29-PG-29	177 578	MKRL-29-PG-29
[3]	2	177 599	MKM-PG-21	177 600	MKM-PG-29	177 600	MKM-PG-29
[4]	1 ¹⁾	177 567	MKR-23-PG-21	177 568	MKR-29-PG-29	177 568	MKR-29-PG-29
[5]	2	192 290	MKRS-23-B	192 291	MKRS-29-B	192 291	MKRS-29-B
[6]	1	177 572	MKRV-23-PG-21	177 573	MKRV-29-PG-29	177 573	MKRV-29-PG-29
[7]	1	193 124	HMZAS-PG-21	177 603	HMZAS-PG-29	177 603	HMZAS-PG-29

1) Length depends on the stroke of the drive

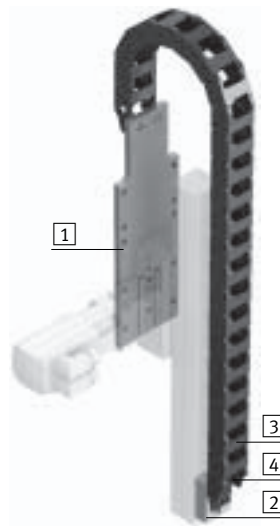
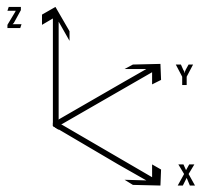
3-Dimensional gantries

Z modules

FESTO

Mono/Duo system

Cantilever axes DGEA



Bill of materials							
Type		HMBSZ-DGEA-1		HMBSZ-DGEA-2		HMBSZ-DGEA-3	
For drives		DGEA-18		DGEA-25		DGEA-25	
System type		Mono 25 Mono 40 Duo 25		Duo 25		Duo 40	
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type
1	1	539 374	HMVZ-3	539 375	HMVZ-4	539 377	HMVZ-6
2	1	539 370	HMIZF-E03-DA18	539 371	HMIZF-E03-DA25	539 371	HMIZF-E03-DA25
3	1 ¹⁾	IGUS E2 medium 240.03.075.0 and 211 or KABELSCHLEPP MC 0320.40-01-77 and TS O/n _T 2					–
4	1	IGUS E2 medium 2030.12.PZB or KABELSCHLEPP MC FA/MA					–

1) Length depends on the stroke of the drive

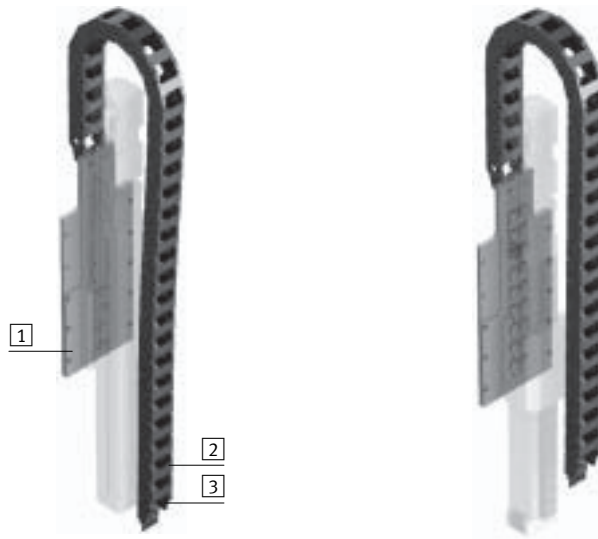
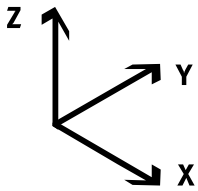
3-Dimensional gantries

Z modules

FESTO

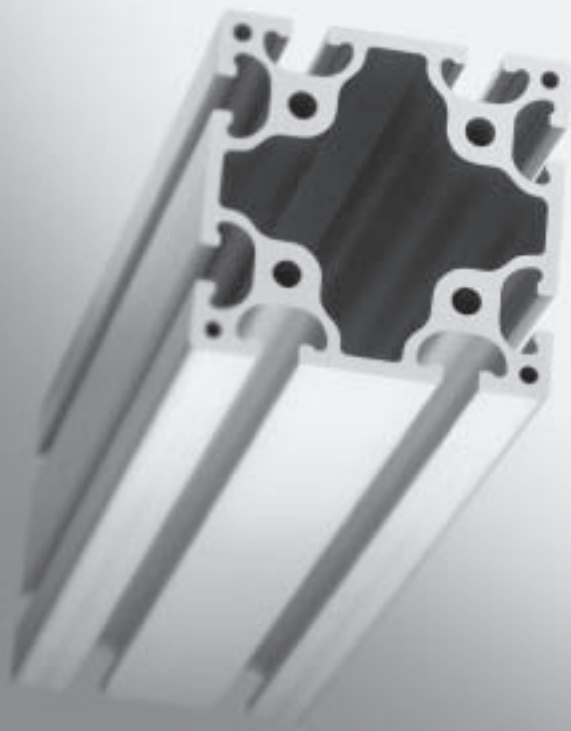
Mono/Duo system

Toothed belt axes DGE



Bill of materials								
Type		HMBSZ-DGE-1		HMBSZ-DGE-2		HMBSZ-DGE-3		→ Page
For drives		DGE-25-SP		DGE-40-SP		DGE-40-SP		
System type		Mono 40 Duo 25		Duo 25		Duo 40		
Item	Quantity	Part No.	Type	Part No.	Type	Part No.	Type	
[1]	1	539 374 HMOVZ-3		539 375 HMOVZ-4		539 377 HMOVZ-6		5 / 3.3-199
[2]	1 ¹⁾	IGUS E2 medium 240.03.075.0 and 211 or KABELSCHLEPP MC 0320.40-01-77 and TS O/ηT2						–
[3]	1	IGUS E2 medium 2030.12.PZB or KABELSCHLEPP MC FA/MA						–

1) Length depends on the stroke of the drive

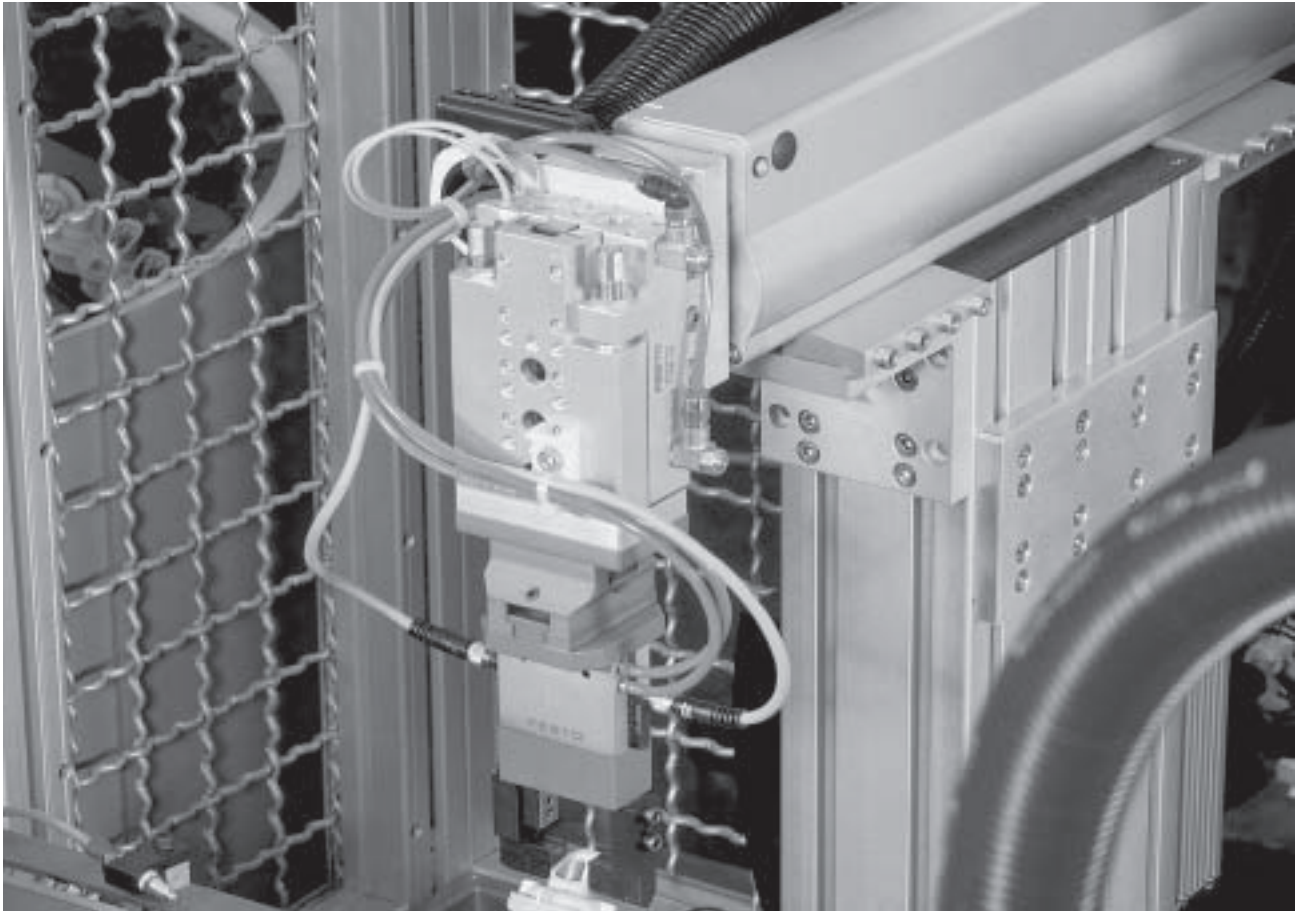


- Wide range of variants
- Sturdy
- Functional
- Versatile

Basic components

Key features

FESTO



Basic kits

Profile column HMBS

With slot width 8 mm for mounting adapter 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.

Angle kit HMBSW

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

Base kit HMBF-DB

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

Angle connector HMBWS

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

Connecting kit HMBV-ND

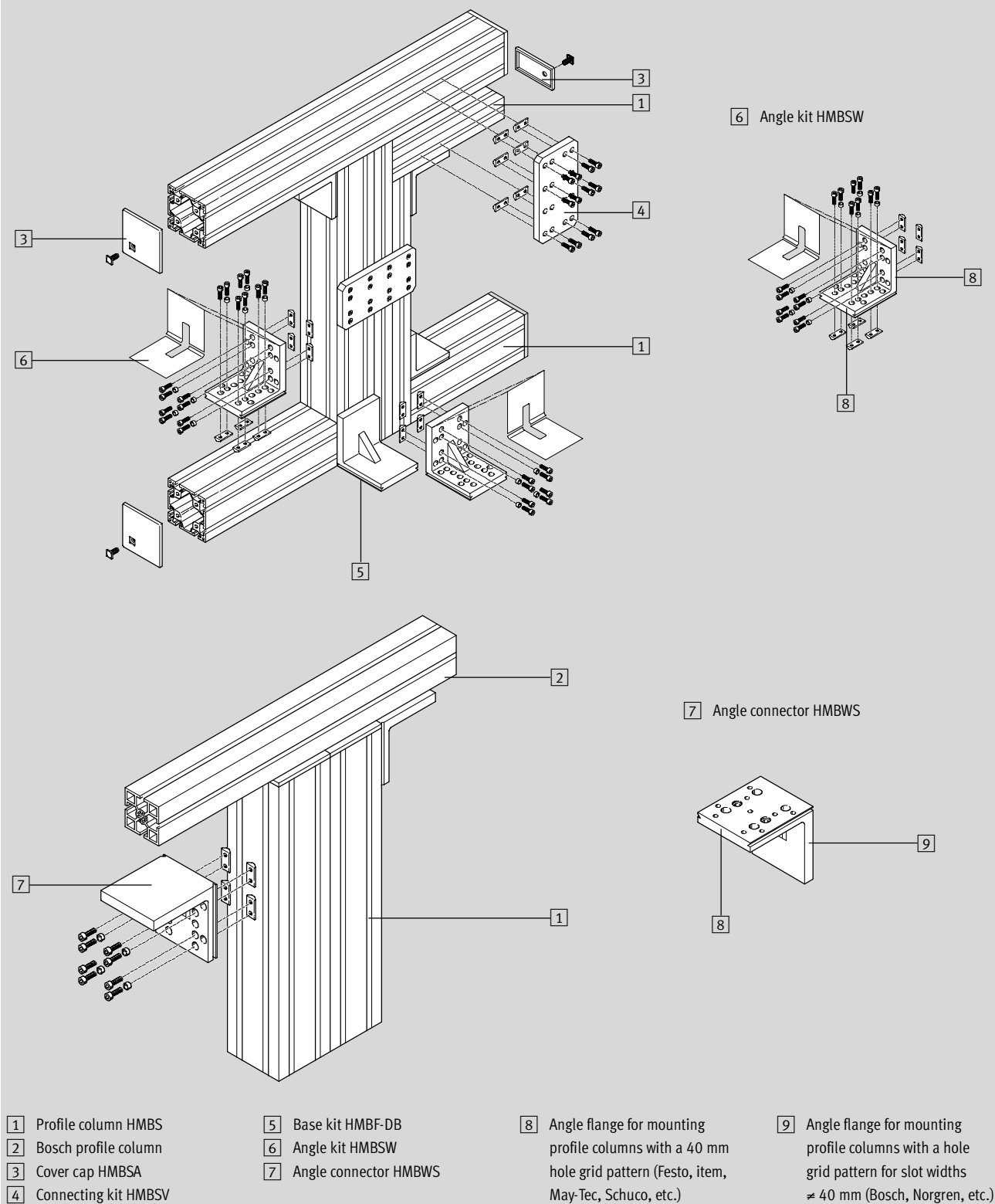
Interface for connecting basic components to Festo drives.

Basic components

Key features

FESTO

Optimum concept of multiple functionalities



System components
Multi-axis modular system

3.3

Basic components

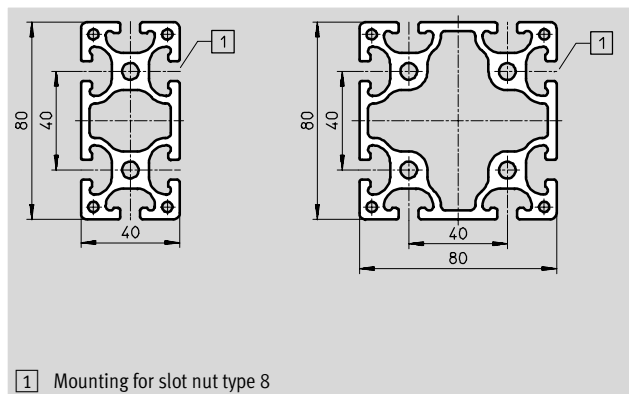
Technical data

FESTO

Profile column HMBS

Scope of delivery:
1 support column

Material:
Aluminium
Free of copper, PTFE and silicone



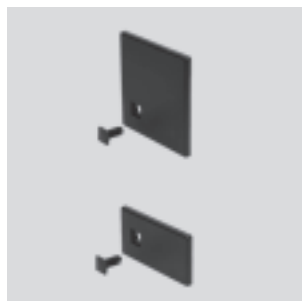
Ordering data				
Dimensions	CRC ¹⁾	Part No.	Type	PU ²⁾
80x40	2	175 964	HMBS-80/40	1
80x80		175 958	HMBS-80/80	1
Accessories (to be ordered separately)				
Slot nuts	2	186 567	HMBN-8-2M5	10

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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 quantity. With HMBS: Specify the desired length in mm ($L_{max} = 6,000$ mm).

Cover cap HMBSA

Scope of delivery:
1 cover, 1 plug

Material:
Polyacetate
Free of copper, PTFE and silicone



Ordering data				
Dimensions	CRC ¹⁾	Part No.	Type	PU ²⁾
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 requiring moderate corrosion resistance. 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 quantity

Basic components

Technical data

FESTO

Connecting kit HMBSV

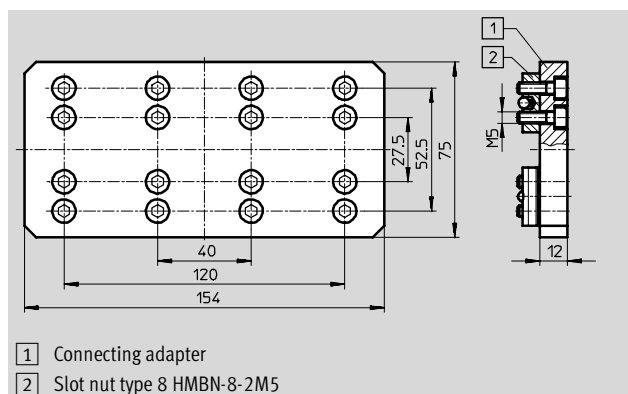
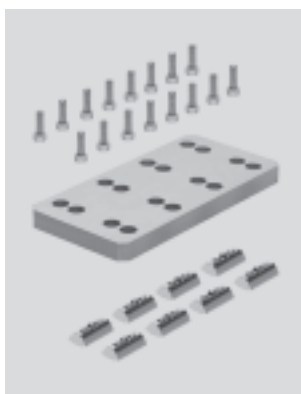
Scope of delivery:

1 mounting plate, 16 screws, 8 slot nuts

Material:

Aluminium

Free of copper, PTFE and silicone



Ordering data				
	CRC ¹⁾	Part No.	Type	PU ²⁾
Connecting kit	2	175 972	HMBSV	1
Accessories (for reorder)				
Slot nuts	2	186 567	HMBN-8-2M5	10
Screws		M5x16		—

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

Components requiring moderate corrosion resistance. 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 quantity

Angle kit HMBSW

Scope of delivery:

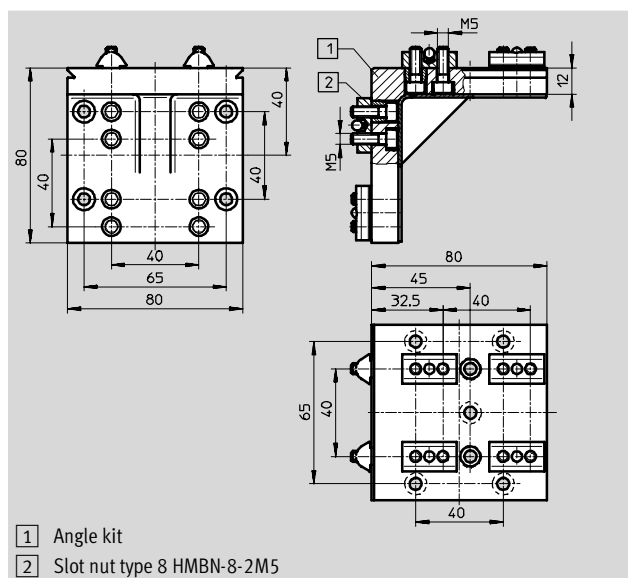
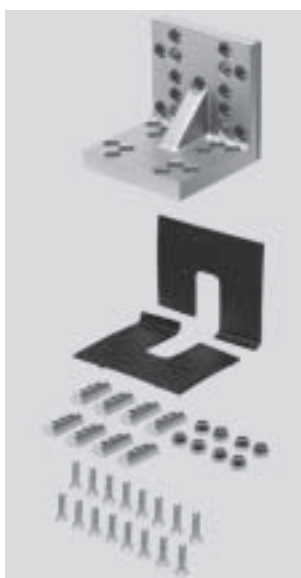
1 bracket, 16 screws, 8 slot nuts,
8 spacer rings, 2 cover caps

Material:

Aluminium

Cover cap: Polyacetate

Free of copper, PTFE and silicone



Ordering data				
	CRC ¹⁾	Part No.	Type	PU ²⁾
Angle kit HMBSW	2	178 228	HMBSW	1
Accessories (for reorder)				
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 requiring moderate corrosion resistance. 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 quantity

Basic components

Technical data

FESTO

Base kit HMBF-DB

Scope of delivery:

1 bracket, 16 screws, 4 slot nuts,
8 spacer rings, 2 cover caps

Material:

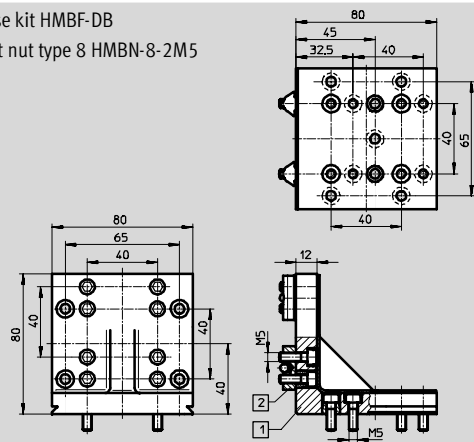
Aluminium

Cover cap: Polyacetate

Free of copper, PTFE and silicone



- 1 Base kit HMBF-DB
- 2 Slot nut type 8 HMBN-8-2M5



Ordering data				
	CRC ¹⁾	Part No.	Type	PU ²⁾
Base kit HMBF-DB	2	175 951	HMBF-DB	1
Accessories (for reorder)				
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 requiring moderate corrosion resistance. 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 quantity

Angle connector HMBWS

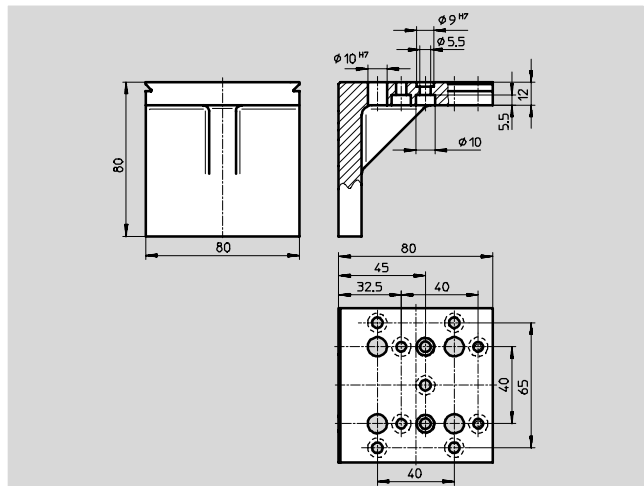
Scope of delivery:

1 bracket

Material:

Aluminium

Free of copper, PTFE and silicone



Ordering data				
	CRC ¹⁾	Part No.	Type	PU ²⁾
Angle connector HMBWS	2	189 486	HMBWS	1
Accessories (for reorder)				
Slot nuts	2	186 567	HMBN-8-2M5	10
Screws		M5x16		—

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

Components requiring moderate corrosion resistance. 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 quantity

Basic components

Technical data



Connecting kit HMBV-ND

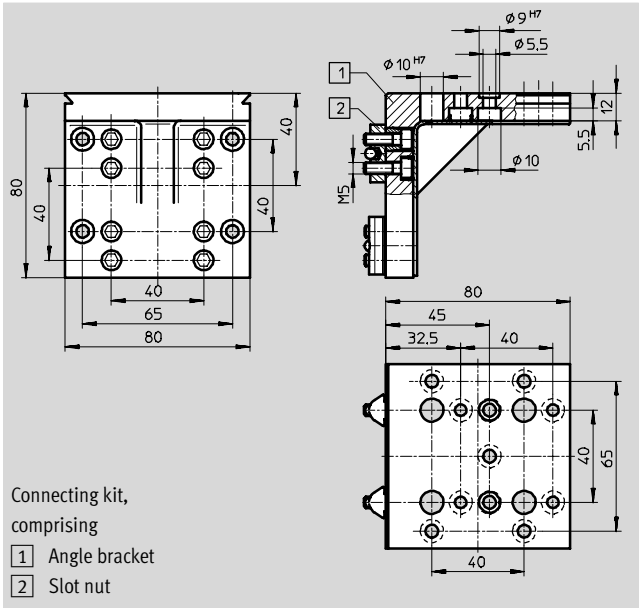
- for HMP, HMPL
- for SLT with HMBK-WS and HMSV-34 ... 37

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



Ordering data				
	CRC ¹⁾	Part No.	Type	PU ²⁾
Connecting kit	2	175 967	HMBV-ND	1
Accessories (for reorder)				
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 requiring moderate corrosion resistance. 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 quantity

Basic components

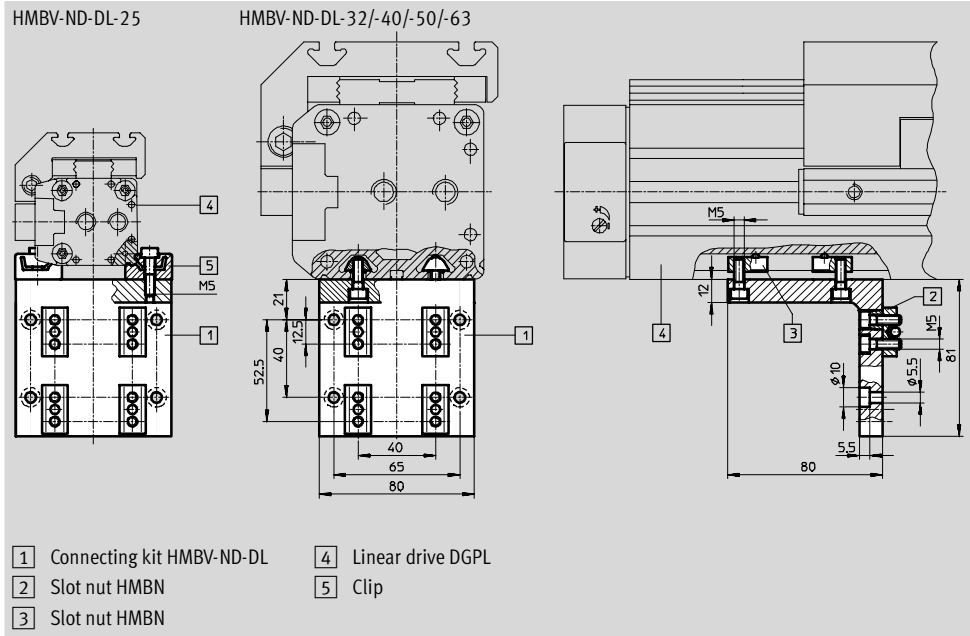
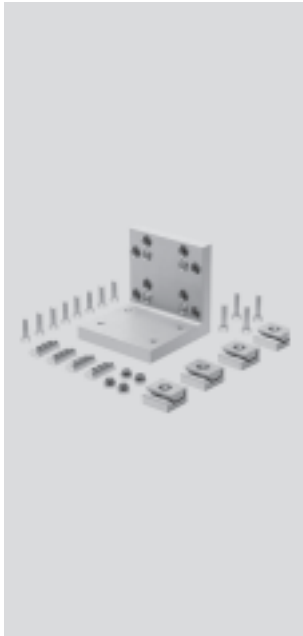
Technical data

FESTO

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



Ordering data				
For Ø	CRC ¹⁾	Part No.	Type	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 requiring moderate corrosion resistance. 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 quantity

Ordering data – Accessories (for reorder)									
For Ø	25	32	40	50	63	CRC ¹⁾	Part No.	Type	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	–	–	–	–		–	M5x20	–

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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 quantity

Basic components

Technical data

FESTO

Combination options – Slot nuts/drives, profile column					
Drives		Slot nuts			
		HMBN-5-M5	HMBN-5-2M5	HMBN-8-M5	HMBN-8-2M5
Linear module HMP					
Ø	16 ... 32	–	■	–	–
Linear drive DGPL, profile barrel					
Ø	32	■	–	–	–
	40	■	–	–	–
	50	–	–	■	■
	63	–	–	■	■
Linear drive DGPL-HD, profile barrel at side					
Ø	18	■	–	–	–
	25	■	–	–	–
	40	–	–	■	■
Linear drive DGPL-HD, profile barrel underneath					
Ø	18	■	–	–	–
	25	–	–	■	■
	40	–	–	■	■
Profile column HMBS					
Dimensions	80x40	–	–	■	■
	80x80	–	–	■	■

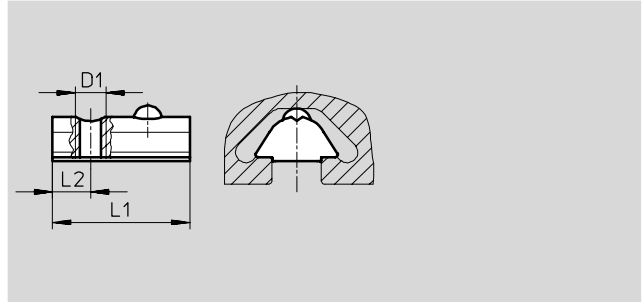
Basic components

Technical data

FESTO

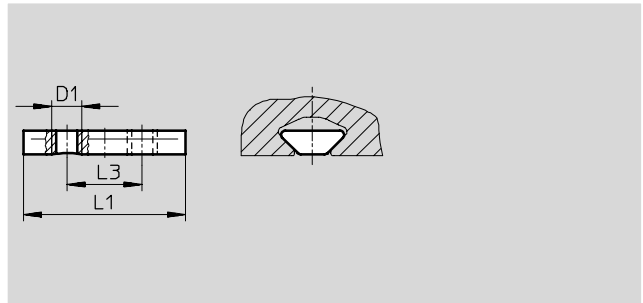
Slot nut HMBN-5-M5

Material:
Tempered steel, non-alloyed
Free of copper, PTFE and silicone



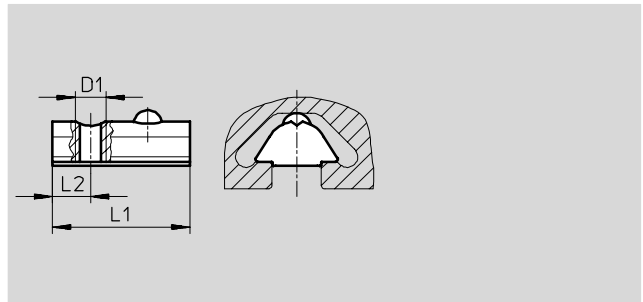
Slot nut HMBN-5-2M5

Material:
Tempered steel, non-alloyed
Free of copper, PTFE and silicone



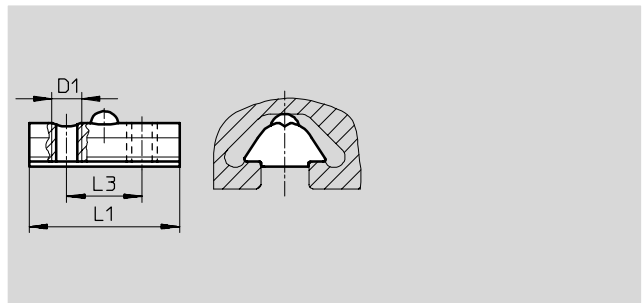
Slot nut HMBN-8-M5

Material:
Tempered steel, non-alloyed
Free of copper, PTFE and silicone



Slot nut HMBN-8-2M5

Material:
Tempered steel, non-alloyed
Free of copper, PTFE and silicone



Dimensions and ordering data							
D1	L1	L2	L3	CRC ¹⁾	Part No.	Type	PU ²⁾
M5	12	4	–	2	189 654	HMBN-5-M5	10
	27	–	12.5		186 566	HMBN-5-2M5	10
	22.5	6.25	–		189 655	HMBN-8-M5	10
	25	–	12.5		186 567	HMBN-8-2M5	10

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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 quantity

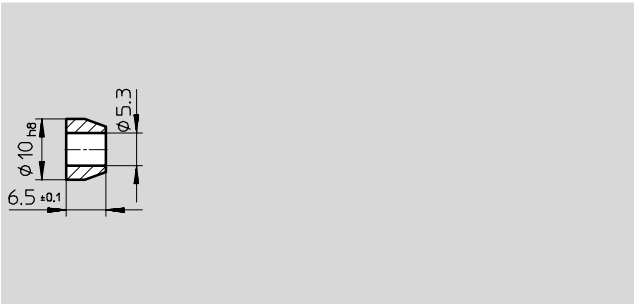
Basic components

Technical data

FESTO

Spacer ring HMBRD

Material:
Steel, corrosion-resistant
Free of copper, PTFE and silicone

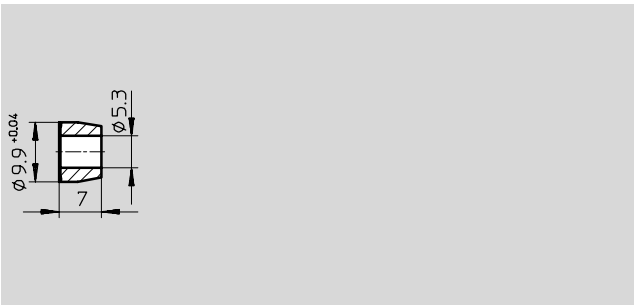


Ordering data			
CRC ¹⁾	Part No.	Type	PU ²⁾
2	186 563	HMBRD	10

- Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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.
- Packaging unit quantity

Cutting ring HMBRS

Material:
Steel, corrosion-resistant
Free of copper, PTFE and silicone



Ordering data			
CRC ¹⁾	Part No.	Type	PU ²⁾
2	186 564	HMBRS	10

- Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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.
- Packaging unit quantity

Basic components

Technical data

FESTO

Centring pin ZBS

Material:
Steel, corrosion-resistant
Free of copper, PTFE and silicone

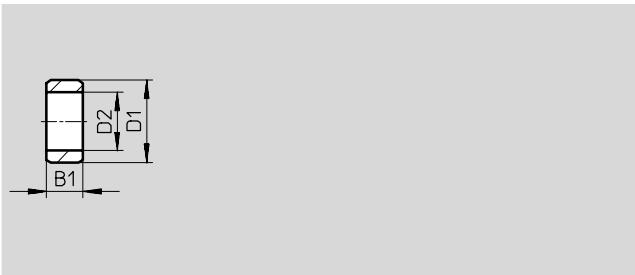


Dimensions and ordering data					
B1	D1	CRC ¹⁾	Part No.	Type	PU ²⁾
-0.2	Ø h8				
5	2	2	525 273	ZBS-02	10
5	5	2	150 928	ZBS-5	10

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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 quantity

Centring sleeve ZBH

Material:
Steel, corrosion-resistant
Free of copper, PTFE and silicone



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

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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 quantity

Basic components

Technical data

FESTO

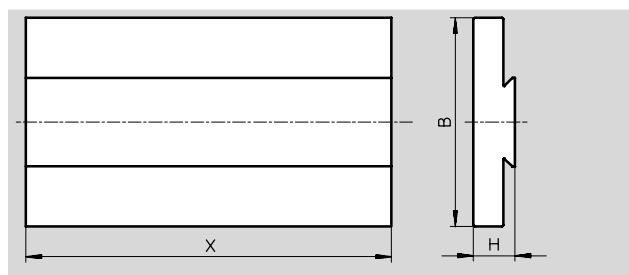
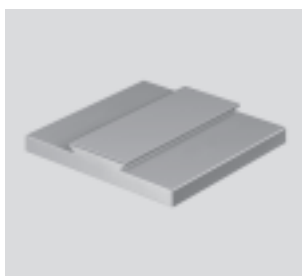
Adapter plate HMAV-...-X

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

Material:

Anodised aluminium

Free of copper, PTFE and silicone



Dimensions and ordering data						
H	B	X ¹⁾	CRC ²⁾	Part No.	Type	PU ³⁾
16	80		2	189 451	HMAV-80-X	1
13	90		2	189 450	HMAV-90-X	1

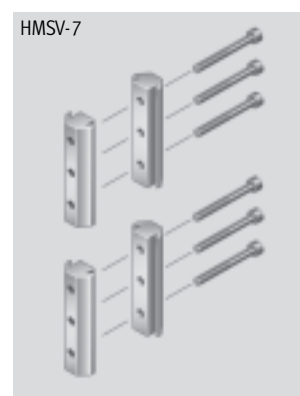
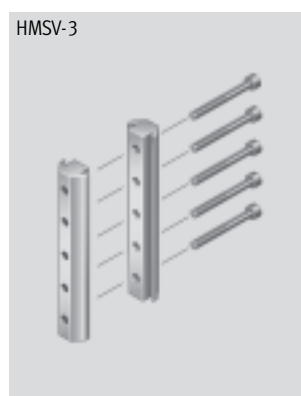
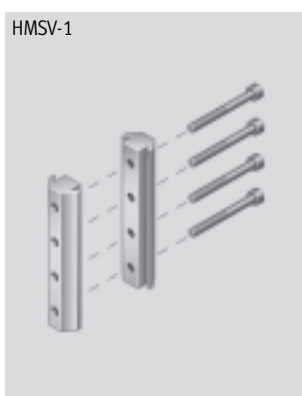
- 1) The length in mm must be quoted in the order.
- 2) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.
- 3) Packaging unit quantity

Adapter kit HMSV

Material:

Anodised aluminium

Free of copper, PTFE and silicone



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

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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 quantity