

Passive guide axes FDG, without drive

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Passive guide axes FDG, without drive

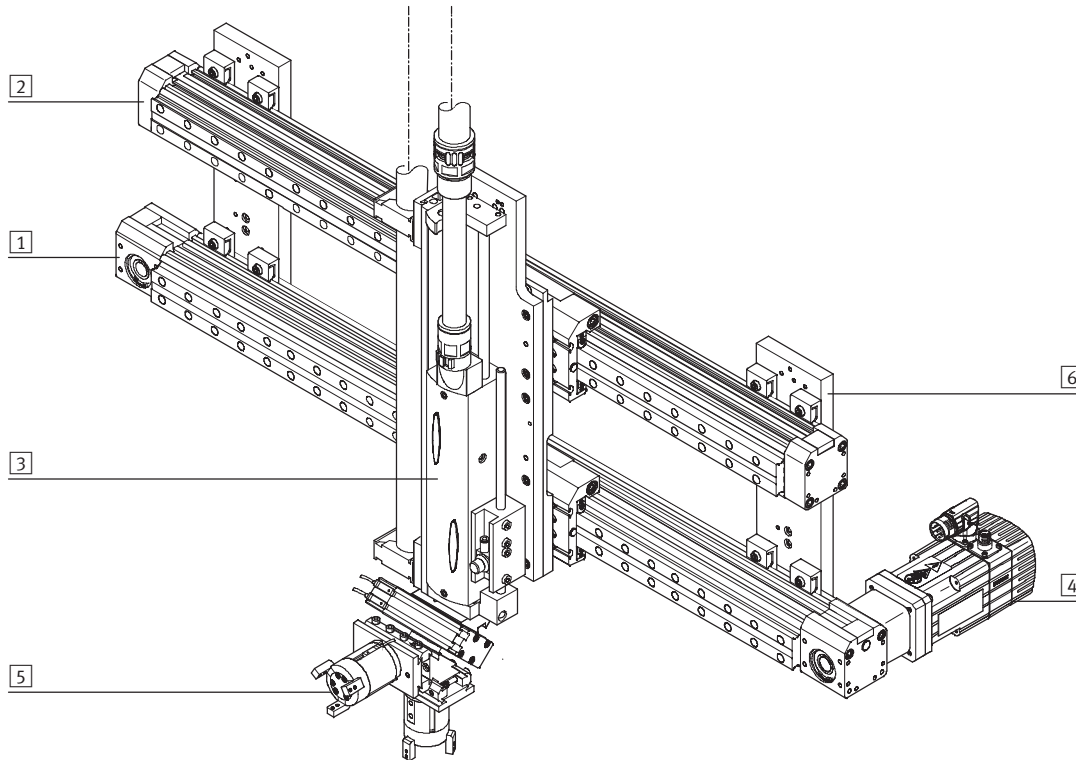
Key features

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At a glance

- Driveless linear guide unit with guide and freely movable slide
- The passive guide axis is designed to increase force and torque capacities in multi-axis applications
- Higher torsional resistance
- Reduced vibrations with dynamic loads
- Drive axis and passive guide axis can be arranged adjacent to or above one another

System product for handling and assembly technology



System components and accessories

	Brief description	→ Page/Internet
1 Axes	Wide range of combinations possible within handling and assembly technology	axis
2 Passive guide axes	For increasing force and torque capacity in multi-axis applications	guide axis
3 Drives	Wide range of combinations possible within handling and assembly technology	drive
4 Motors	Servo and stepper motors, with or without gearing	motor
5 Grippers	Wide range of variations possible within handling and assembly technology	gripper
6 Adapters	For drive/drive and drive/gripper combinations	adapter kit

Passive guide axes FDG, without drive

Key features

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Guide axes and the corresponding drives

Passive guide axis DGC-FA



- Can be combined with:
 - Linear drive DGC-KF
- For size 8 ... 63
- Load capacity to max. 6,890 N or 380 Nm

Passive guide axis EGC-FA



- Can be combined with:
 - Toothed belt axis EGC-TB
 - Spindle axis EGC-BS
- For size 70 ... 185
- Load capacity to max. 15,200 N or 1,820 Nm

Passive guide axis FDG-ZR-RF



- Can be combined with:
 - Toothed belt axis DGE-ZR-RF
- For size 25 ... 63
- Load capacity to max. 1,500 N or 600 Nm

Passive guide axis FDG-P/-ZR/-SP

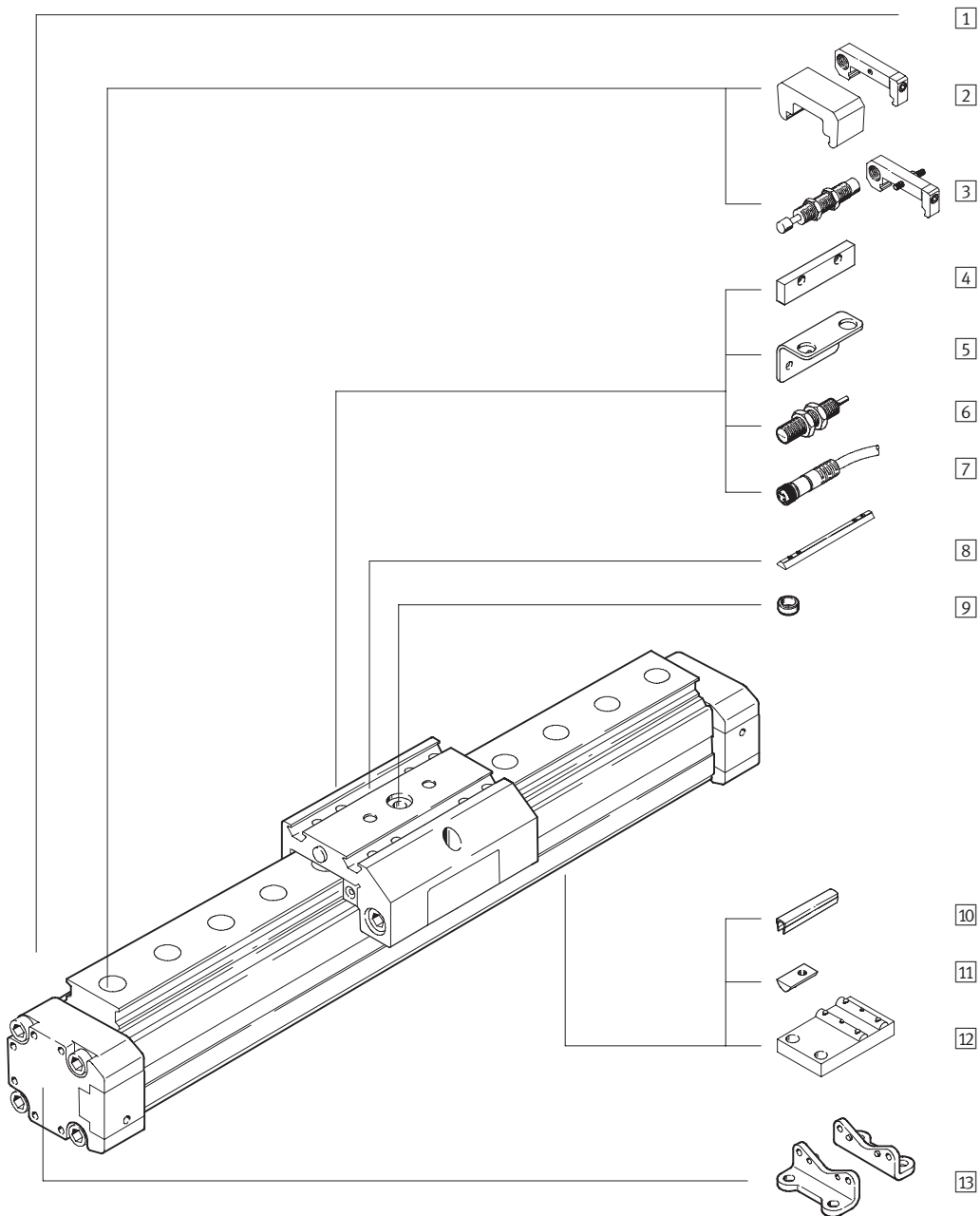
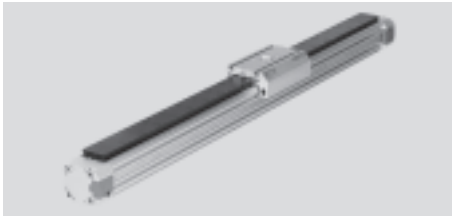


- Can be combined with:
 - Linear drive DGPL
 - Toothed belt axis DGE-ZR-KF
 - Spindle axis DGE-SP-KF
- For size 18 ... 63
- Load capacity to max. 14,050 N or 1,820 Nm

Passive guide axes FDG, without drive

Peripherals overview

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Passive guide axes FDG, without drive

Peripherals overview

Variants and accessories		
Type	Brief description	→ Page/Internet
1 Passive guide axis FDG	Guide without drive	6
2 Emergency buffer with retainer A	Absorbs the energy created by the movement of the slide when it reaches the end position	22
3 Shock absorber kits C/E	Absorbs the energy created by the movement of the slide when it reaches the end position	21
4 Switching lug L	For sensing the slide position	23
5 Sensor bracket T	Adapter for mounting the SIEN proximity sensor on the axis	23
6 Proximity sensors O/P/R/W	For providing a proximity signal or safety check	25
7 Cable with socket V	For proximity sensor	25
8 Slot nut for slide X	For mounting loads and attachments on the slide	24
9 Centring sleeve Z	For centring loads and attachments on the slide	24
10 Slot cover B/S	To protect against the ingress of dirt	24
11 Slot nut for mounting slot Y	For mounting attachments	24
12 Central support M	To mount the axis	20
13 Foot mounting F	To mount the axis	20

Passive guide axes FDG, without drive

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Type codes

		FDG	-	25	-	500	-	ZR	-	KF	-	GK	-	
Type														
FDG	Guide unit without drive													
Size														
Stroke [mm]														
Passive guide axis														
ZR	For toothed belt axis DGE-ZR-KF													
SP	For spindle drive DGE-SP-KF													
P	For pneumatic linear drive DGPL													
Guide														
KF	Recirculating ball bearing guide													
Slide														
GK	Standard slide													
GV	Extended slide													
GA	Protected version													
Additional slide														
KL	Left													
KR	Right													

Passive guide axes FDG, without drive

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Type codes

→		ZUB	-	2S			F		2E	Z	2T	2L	20	2V
Accessories														
ZUB	Accessories supplied loose													
Slot cover														
...S	Sensor slot													
...B	Mounting slot													
Slot nut														
...Y	For mounting slot													
...X	For slide													
Central support														
...M	Central support													
Foot mounting														
...F	Foot mounting													
Emergency buffer and retainer														
...A	Emergency buffer and retainer													
Shock absorber kit														
...C	And retainer for GK/GV													
...E	For GA													
Centring sleeve														
...Z	Centring sleeve													
Sensor bracket														
...T	For inductive proximity sensors													
Switch lug														
L	Switch lug													
Proximity sensors														
...O	NO contact, cable													
...P	NC contact, cable													
...W	NO contact, plug													
...R	NC contact, plug													
Cable with socket														
V	2.5 m													

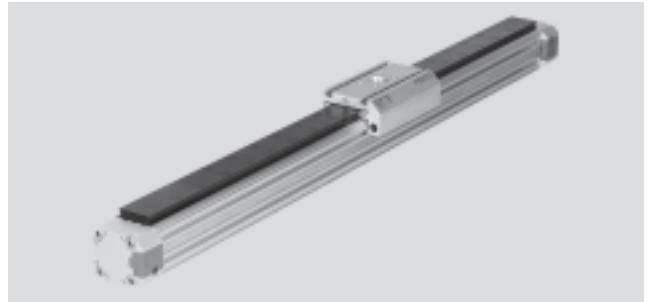
Passive guide axes FDG, without drive

Technical data

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- Ø - Size
18 ... 63
- I - Stroke length
100 ... 5,100 mm

www.festo.com/en/Spare_parts_service



General technical data								
Size			18	25	32	40	50	63
Max. stroke	FDG-ZR	[mm]	1 ... 1,000	1 ... 5,100	–	1 ... 4,900	–	1 ... 4,700
	FDG-SP	[mm]	1 ... 500	1 ... 1,000	–	1 ... 1,500	–	1 ... 2,000
	FDG-P	[mm]	10 ... 1,800	10 ... 3,000	10 ... 3,000	10 ... 3,000	10 ... 3,000	10 ... 3,000
Design			Driveless linear guide unit with slide					
Guide			External recirculating ball bearing guide					
Fitting position			Any					
Cushioning			Not adjustable at either end					
			Self-adjusting at both ends					
Type of mounting			Profile mounting					
			Foot mounting					
			Direct mounting					
Increase in no-load drive torque	for DGE-...-ZR by	[Nm]	0.005	0.02	–	0.03	–	0.085
	for DGE-SP by	[Nm]	0.04	0.1	–	0.15	–	0.45
Thrust ¹⁾		[N]	5	10	7	9	12	16
Ambient temperature		[°C]	–10 ... +60					

1) Measured at FDG-18 = 0.05 m/s; FDG-25... 63 = 0.2 m/s

Weights [kg]							
Size		18	25	32	40	50	63
FDG-ZR							
Basic weight at 0 mm stroke	GK	0.879	2.022	–	6.055	–	21.493
	GV	1.341	2.927	–	7.939	–	31.464
	GA	–	2.931	–	8.128	–	–
Additional weight per 100 mm stroke	GK	0.274	0.479	–	0.968	–	2.423
	GV	0.274	0.479	–	0.968	–	2.423
	GA	–	0.570	–	1.092	–	–
FDG-SP							
Basic weight at 0 mm stroke	GK	0.743	1.482	–	4.296	–	13.454
	GV	1.232	2.530	–	7.678	–	25.847
	GA	–	2.459	–	6.798	–	–
Additional weight per 100 mm stroke	GK	0.274	0.479	–	0.968	–	2.423
	GV	0.274	0.479	–	0.968	–	2.423
	GA	–	0.570	–	1.092	–	–
FDG-P							
Basic weight at 0 mm stroke	GK	0.685	1.416	2.449	4.160	8.445	13.328
	GV	1.147	2.321	3.784	6.961	13.491	23.3
	GA	–	2.211	3.282	5.989	–	–
Additional weight per 100 mm stroke	GK	0.274	0.479	0.705	0.968	1.8	2.423
	GV	0.274	0.479	0.705	0.968	1.8	2.423
	GA	–	0.570	0.808	1.092	–	–

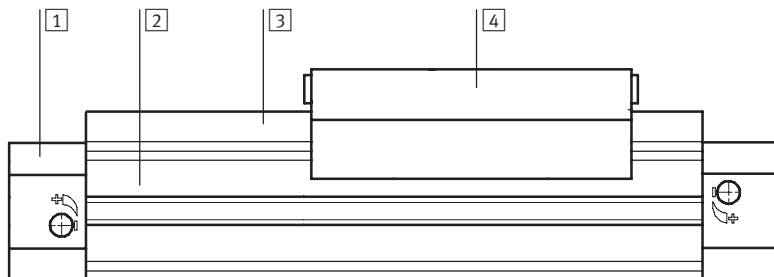
Passive guide axes FDG, without drive

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Technical data

Materials

Sectional view



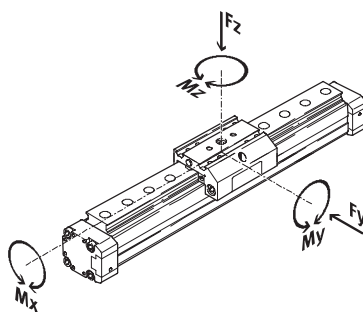
Axis

1	End cap	Anodised aluminium
2	Profile	Anodised aluminium
3	Guide rail	Ø 18 Hardened steel Ø 25 ... 63 Hardened steel with corrosion resistant coating
4	Slide	Anodised aluminium
Note on material		Free of copper, PTFE and silicone

Characteristic load values

The forces and torques specified refer to the centre of the guide rails.

They must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.



If the axis is simultaneously subjected to several of the forces and torques listed below, the following equations must be satisfied in addition to the indicated maximum loads.

$$\frac{F_y}{F_{y_{\max}}} + \frac{F_z}{F_{z_{\max}}} + \frac{M_x}{M_{x_{\max}}} + \frac{M_y}{M_{y_{\max}}} + \frac{M_z}{M_{z_{\max}}} \leq 1$$

Permissible forces and torques

Size	18	25	32	40	50	63
GK/GA – standard slide/protected slide						
F _y _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
F _z _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
M _x _{max.} [Nm]	7	45	63	170	240	580
M _y _{max.} [Nm]	23	85	127	330	460	910
M _z _{max.} [Nm]	23	85	127	330	460	910
GV – extended slide						
F _y _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
F _z _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
M _x _{max.} [Nm]	7	45	63	170	240	580
M _y _{max.} [Nm]	45	170	250	660	920	1,820
M _z _{max.} [Nm]	45	170	250	660	920	1,820

Passive guide axes FDG, without drive

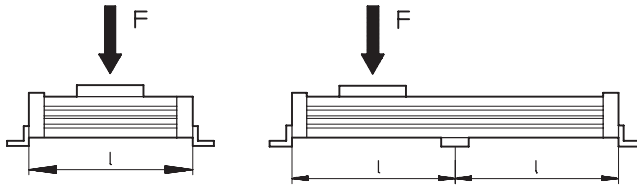
Technical data

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Maximum permissible support span l as a function of the force F

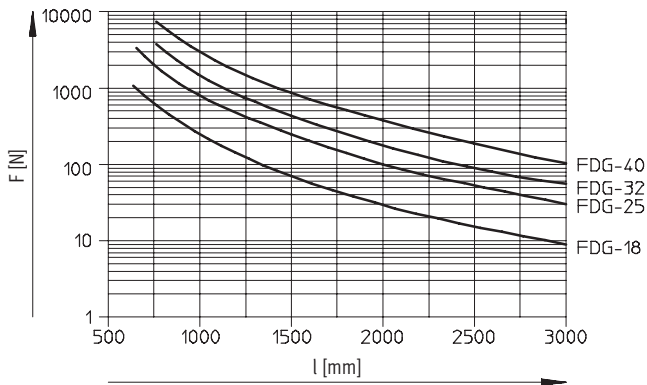
The axis may need to be supported with central supports MUP in order to limit deflection in the case of large strokes. The following diagrams serve to determine the maximum permissible support span l as a function of the force F .

Force on the surface of the slide

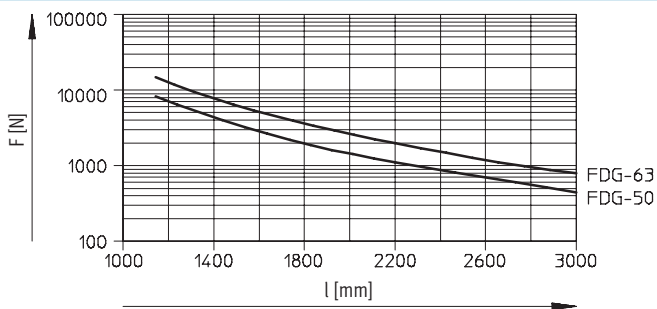


Maximum permissible support span l (without central support) as a function of the force F

Size 18...40



Size 50...63



Passive guide axes FDG, without drive

Technical data

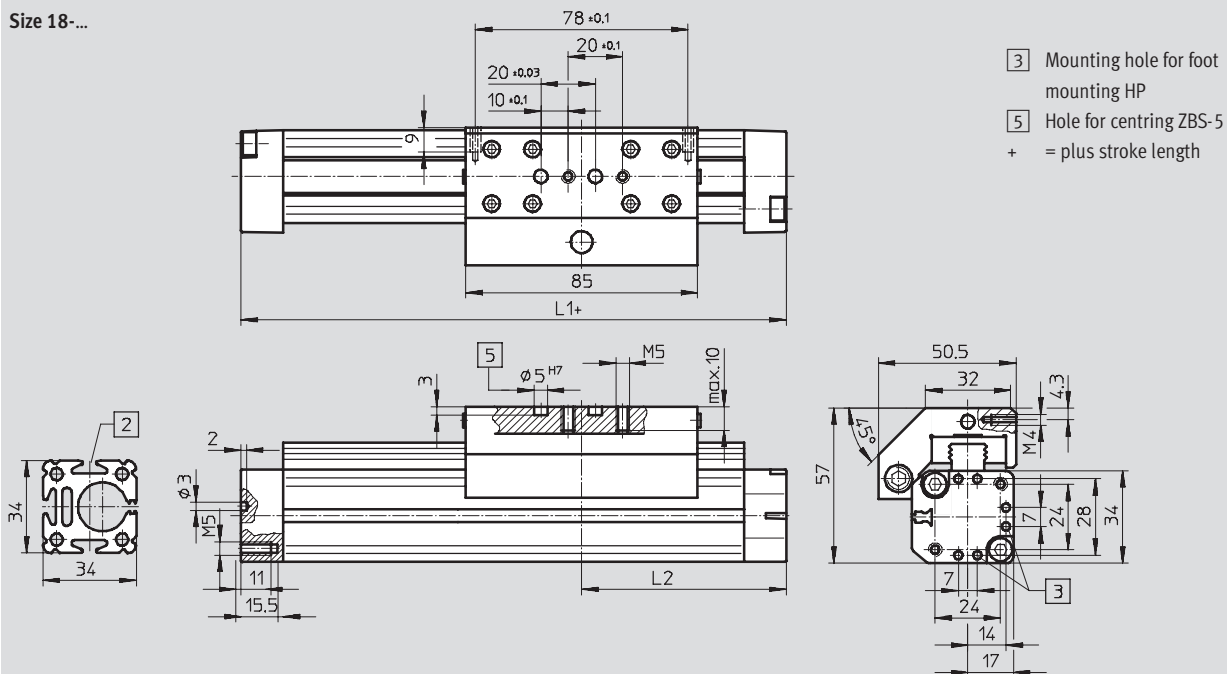
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Dimensions

Download CAD Data → www.festo.com/us/cad

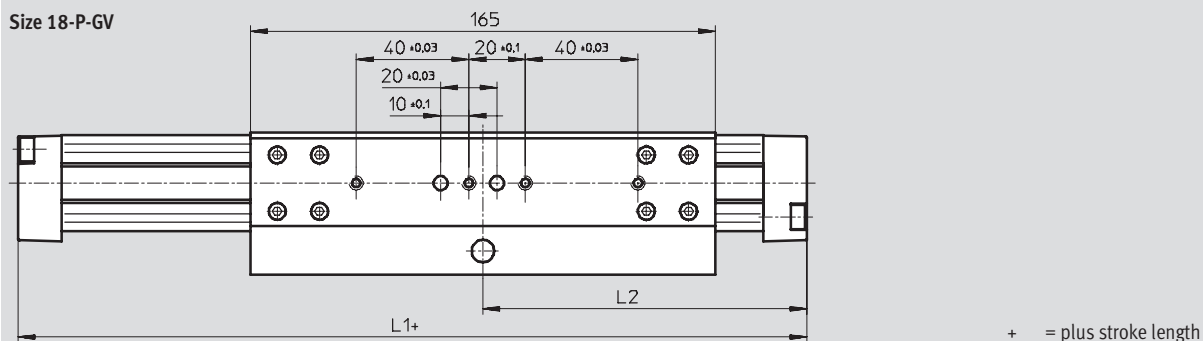
Standard slide GK

Size 18-...



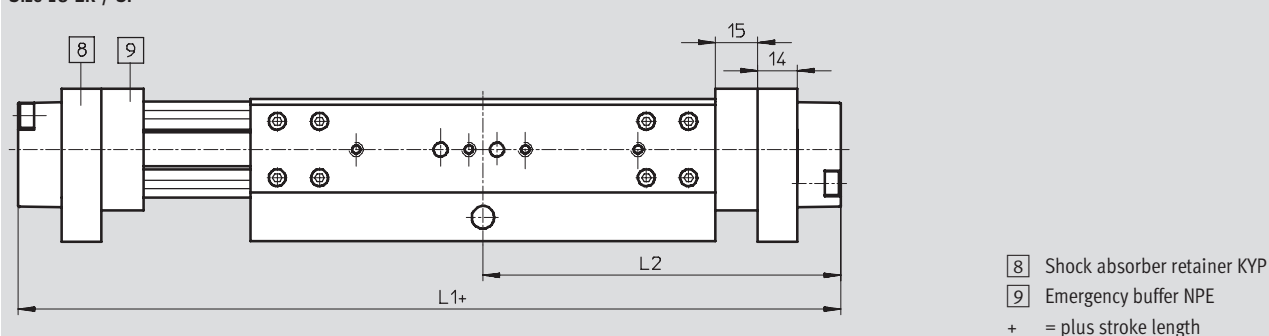
Extended slide GV

Size 18-P-GV



Extended slide GV

Size 18-ZR-/SP

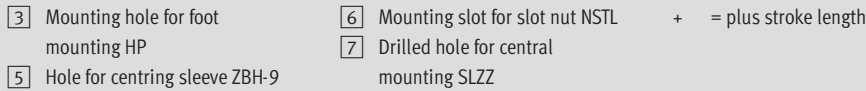


Size	L1		L2	
	GK	GV	GK	GV
FDG-18-...-P-...	150	230	75	115
FDG-18-...-ZR-...	221	301	110.5	150.5
FDG-18-...-SP-...	171	261	92	132

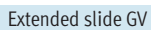
Technical data

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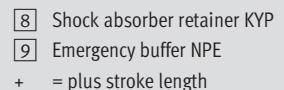
Size 25-...



Size 25-P



Size 25-ZR/-SP



Passive guide axes FDG, without drive

Technical data

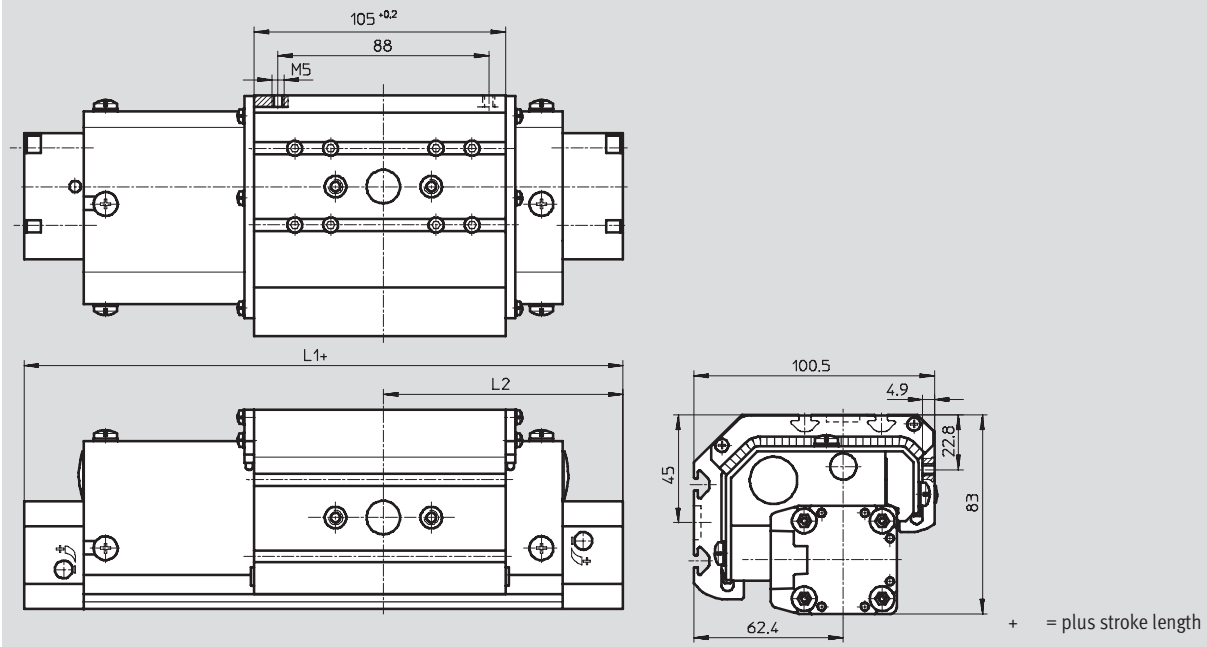
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Dimensions

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Protected version GA

Size 25-...GA

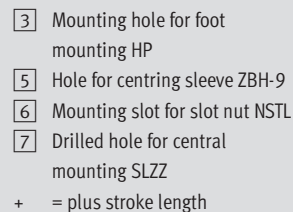


Size	L1			L2		
	GK	GV	GA	GK	GV	GA
FDG-25-...-P-...	200	300	200	100	150	100
FDG-25-...-ZR-...	326	426	326	163	213	163
FDG-25-...-SP-...	213	343	243	101.5	171.5	121.5

Technical data

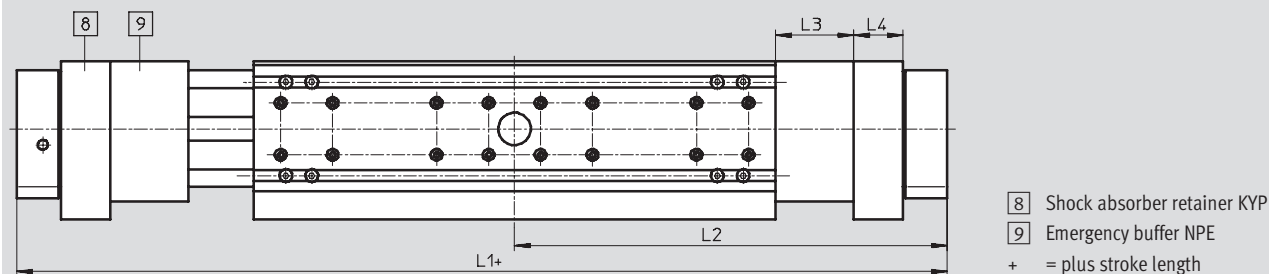
Download CAD Data → www.festo.com/us/cad

Standard slide GK, Size 32...63-...



Technical drawing of a rectangular plate with a central circular hole and a grid of 16 holes. The drawing shows top and side views. Dimensions include L20 (total length), L21, L19, L18, L19, L21, L19 (segment lengths), L2 (distance from center to right edge), L1+ (distance from left edge to center), and B/0 (width). A note indicates '+' means plus stroke length.

Size 40/63-ZR/-SP



Size 32

Size 40

Size 50

Size 63

6 Mounting slot for slot nut NST

Passive guide axes FDG, without drive

Technical data

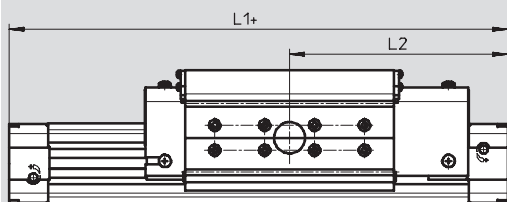
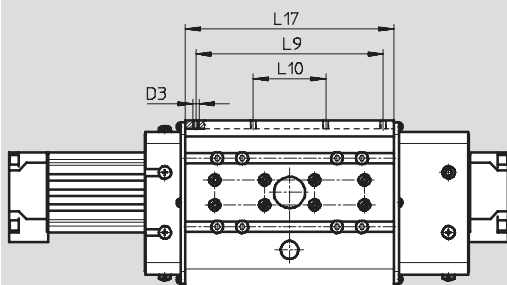
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Dimensions

Download CAD Data → www.festo.com/us/cad

Dust-proof version

Size 32/40-...GA



+ = plus stroke length

Size	L1			L2		
	GK	GV	GA	GK	GV	GA
FDG-32-...P-...	250	380	250	125	190	125
FDG-40-...P-...	300	470	300	150	235	150
FDG-50-...P-...	350	550	–	175	275	–
FDG-63-...P-...	400	650	–	200	325	–
FDG-40-...ZR-...	497	667	497	248.5	333.5	248.5
FDG-63-...ZR-...	738	988	–	369	494	–
FDG-40-...SP-...	315	545	375	153	271.5	186.5
FDG-63-...SP-...	406	756	–	198	378	–

Size	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	D2 Ø	D3
									±0.2			
32	54	112.1	–	46	21	40	63	79	47	20	4.3	M5
40	64	137.6	7	53	28	49	78.5	96.5	55	20	4.3	M5
50	90	–	–	76	44	72	97	122	72	40	6.3	M6
63	106	–	–	89	44	83	121	142	90	40	6.3	M8

Size	D6	H1	H2	H3	H4	H5	H7	H8	H9	H10	H11	H12	L3
32	M5	72	66	62	23	27	77.5	93.1	49.5	64.5	–	8.3	–
40	M5	86	78	71.8	26.5	32	90.5	106.6	54	79.6	23.1	7	40
50	M6	115	106	99	36	45	122.5	–	–	–	–	11.5	–
63	M8	131	122	115	44.5	53	144.5	–	–	–	39.5	12.5	63

Size	L4	L5	L9	L10	L17	L18	L19	L20	L21	T1	T2	T4	T8
			±0.1	±0.1	±0.2	±0.03	±0.03		±0.1				
32	–	31	112	–	131	40	–	261	40	13.2	3	12.5	8.5
40	32	31	150	58	167	40	40	337	40	13.2	4	12.5	8.5
50	–	34	184	68	202	40	40	402	80	15.2	6	18.5	8
63	44	34	200	72	230	40	40	480	120	21.2	6	20.5	10.5

Passive guide axes FDG, without drive

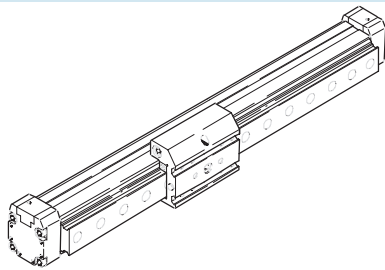
Ordering data – Modular product system

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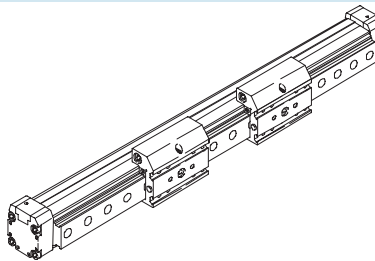
Order code

Mandatory data/Options

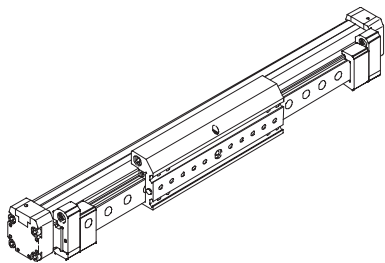
Standard slide GK



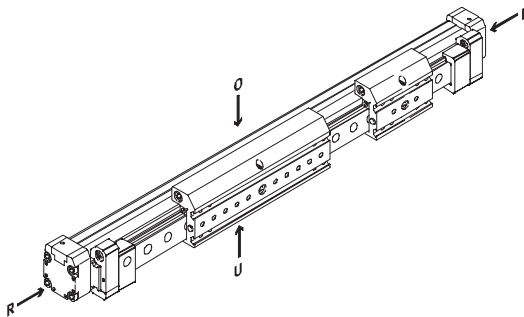
Standard slide plus additional slide GK-KL/-KR



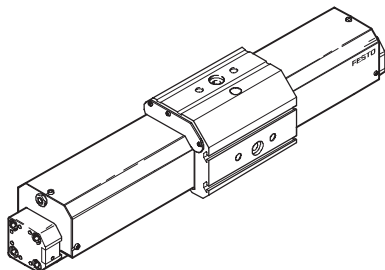
Extended slide GV



Extended slide plus additional slide GK-KL/-KR



Dust-proof version GA



Note

O = top

R = right

U = underneath

L = left

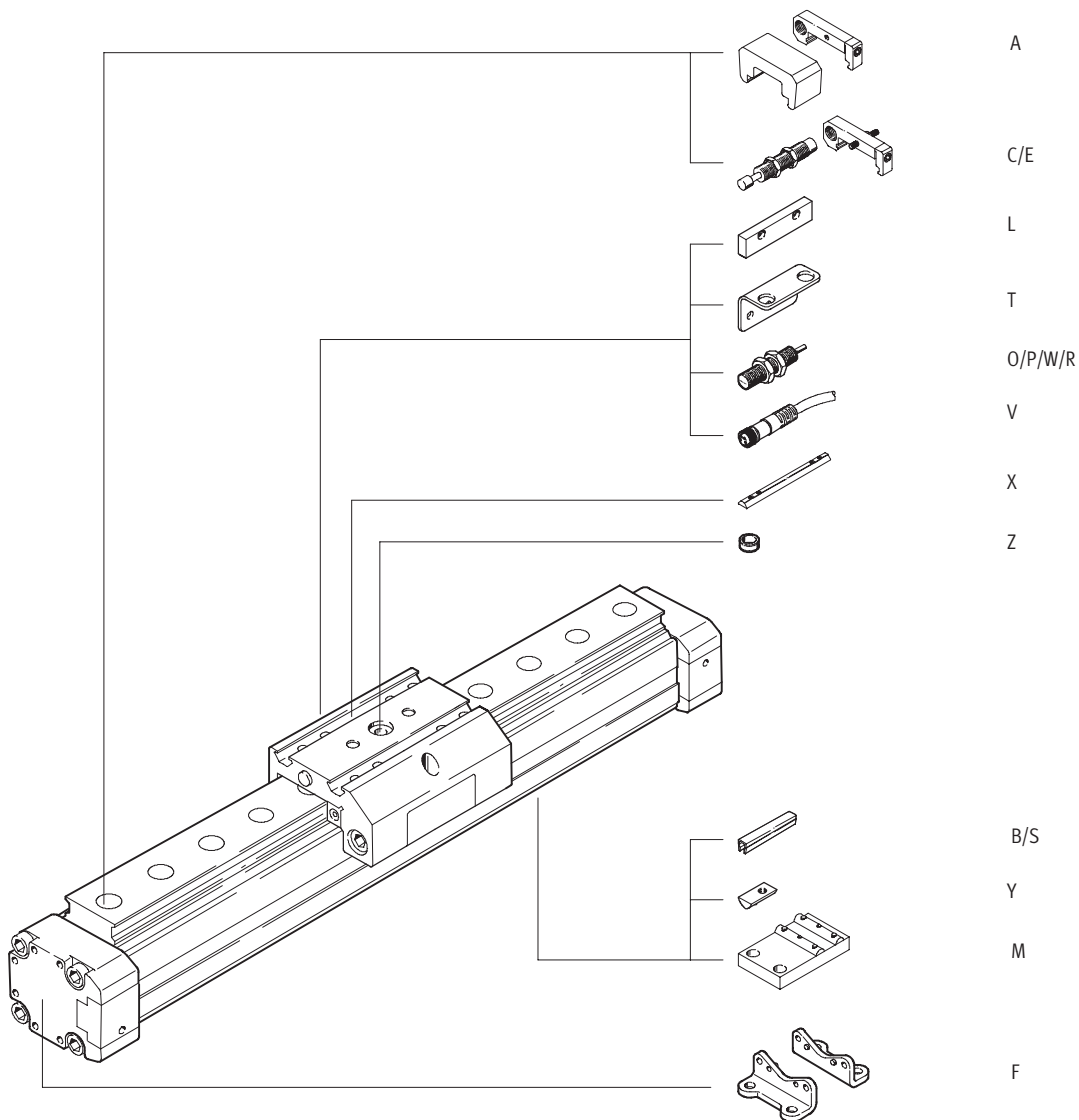
Passive guide axes FDG, without drive

Ordering data – Modular product system

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Order code

Options



Passive guide axes FDG, without drive

Ordering data – Modular product system

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M Mandatory data						O Options	
Module No.	Drive function	Size	Stroke	Passive guide axis	Guide	Slide	Additional slide
192 850	FDG	18	1 ... 5 100	ZR SP P	KF	GK GV GA	KL KR
192 851							
192 852							
192 853							
192 854							
192 855							
Ordering example							
192 853	FDG	- 40	- 500	- ZR	- KF	- GK	-

Ordering table											
Size		18	25	32	40	50	63	Condition s	Code	Enter code	
	Module No.	192 850	192 851	192 852	192 853	192 854	192 855				
Drive function		Guide unit without drive							FDG	FDG	
Size		18	25	32	40	50	63		-...		
Stroke (as for corresponding drive axis)	[mm] with ZR	1 ... 1 000	1 ... 5 100	—	1 ... 4 900	—	1 ... 4 700		-...		
	with SP	1 ... 500	1 ... 1 000	—	1 ... 1 500	—	1 ... 2 000				
	with P	10 ... 1 800	10 ... 3 000	10 ... 3 000	10 ... 3 000	10 ... 3 000	10 ... 3 000				
Passive guide axis	for	DGE-ZR	DGE-ZR	—	DGE-ZR	—	DGE-ZR		-ZR		
	for	DGE-SP	DGE-SP	—	DGE-SP	—	DGE-SP		-SP		
	for	DGP	DGP	DGP	DGP	DGP	DGP		-P		
Guide		Recirculating ball bearing guide							-KF	-KF	
Slide	Standard									-GK	
	Extended									-GV	
	Maximum stroke [mm]										
	with ZR	(920)	(5 000)	—	(4 730)	—	(4 450)				
	with SP	(410)	(870)	—	(1 270)	—	(1 650)				
	—	Protected version				—	—		-GA		
	Maximum stroke [mm]										
	with ZR	—	(1 800)	—	(1 800)	—	—				
	with SP	—	(970)	—	(1 440)	—	—				
with P	—	(2 000)	(2 000)	(2 000)	—	—					
	Additional slide	Standard slide left							-KL		
		Standard slide right							-KR		

1 GA Not with accessories T, L, O, P, W, R.

2 KL, KR Only with slide GK or GV.

Transfer order code

FDG - - - KF - - -

Passive guide axes FDG, without drive

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Ordering data – Modular product system

Options											
Accessories	Slot cover	Slot nut	Central support	Foot mounting	Emergency buffer and retainer	Shock absorber	Centring sleeve	Sensor bracket	Switching lug	Proximity sensors	Plug socket
ZUB	...S ...B	...Y ...X	...M	...F	...A	...C ...E	...Z	...T	L	...O ...P ...W ...R	...V
ZUB	– SB	4Y2X		F		2C	10Z			20	

Ordering table											
Size		18	25	32	40	50	63	Condition s	Code	Enter code	
↓	Accessories		Supplied separately						ZUB-	ZUB-	
0	Slot cover	Sensor slot	1 ... 10						...S		
		Mounting slot	—	—	1 ... 10				...B		
	Slot nut	for mounting slot	1 ... 10						...Y		
		for slide	—	1 ... 10					...X		
	Central support		1 ... 10						...M		
	Foot mounting (kit)		1 ... 10						...F		
	Emergency buffer and retainer		1 ... 2	1 ... 2	—	1 ... 2	—	1 ... 2	3	...A	
			Effective stroke reduction [mm] with emergency buffer at both ends (10) (30) — (60) — (100)								
	Shock absorber	and retainer	1 ... 2						4	...C	
		for dust-proof version	—	1 ... 2			—	—	5	...E	
	Centring sleeve (pack of 10)		10, 20, 30, 40, 50, 60, 70, 80, 90						...Z		
	Sensor bracket		1 ... 5		—	1 ... 5	—	1 ... 5		...T	
	Switching lug		1		—	1	—	1		L	
	Inductive proximity sensor	NO contact, cable	1 ... 5		—	1 ... 5	—	1 ... 5		...O	
NC contact, cable		1 ... 5		—	1 ... 5	—	1 ... 5		...P		
NO contact, plug		1 ... 5		—	1 ... 5	—	1 ... 5		...W		
NC contact, plug		1 ... 5		—	1 ... 5	—	1 ... 5		...R		
Cable with socket, 2.5 m		1 ... 5		—	1 ... 5	—	1 ... 5		...V		

- [3] A Not with passive guide axis P.
Mounted as standard for slides GV, GA.
- [4] C Only with slides GK and GV.

- [5] E Only with slide GA

Transfer order code

ZUB –

Passive guide axes FDG, without drive

Accessories

FESTO

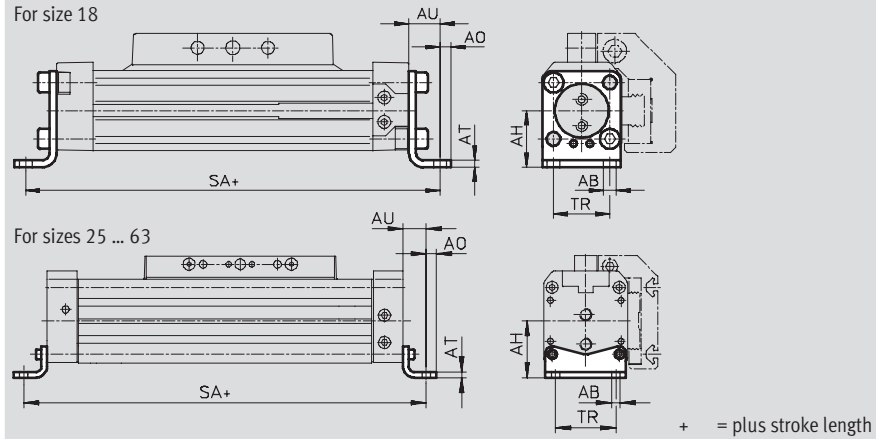
Foot mounting HP (Order code: F)

Material:
Galvanised steel

Free of copper, PTFE and silicone



HP-25

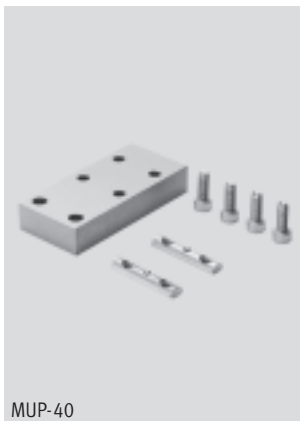


Dimensions and ordering data											
For size	AB Ø	AH	AO	AT	AU	SA	TR	Weight [g]	Part No.	Type	
18	5.5	24	4.8	3	13.2	176	24	70	158 472	HP-18	
25	5.5	29.5	6	3	13	226	32.5	61	150 731	HP-25	
32	6.6	37	7	4	17	284	38	117	150 732	HP-32	
40	6.6	46	8.5	5	17.5	335	45	188	150 733	HP-40	
50	9	61	11	6	25	400	65	243	150 734	HP-50	
63	11	69	13.5	6	28	456	75	305	150 735	HP-63	

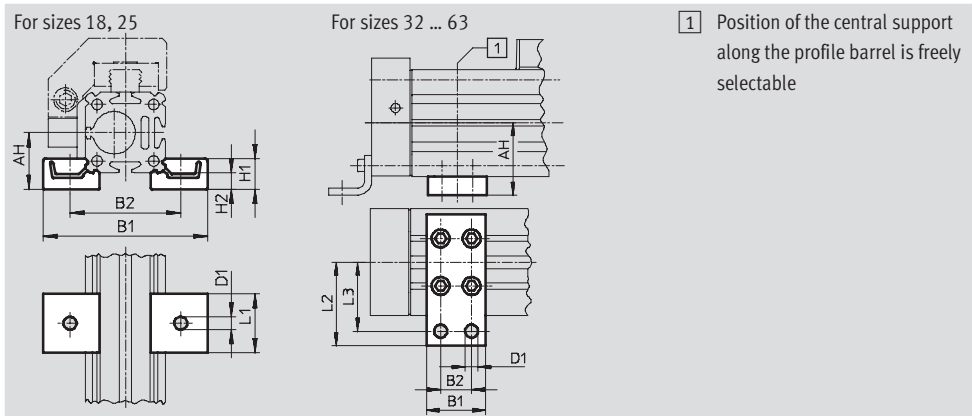
Central support MUP (Order code: M)

Material:
Galvanised steel

Free of copper, PTFE and silicone



MUP-40



Dimensions and ordering data											
For size	AH	B1	B2	D1 Ø	H1	H2	L1	L2	L3	Weight [g]	Part No. Type
18	24	70.5	47	5.5	13	7	25	–	–	33	150 736 MUP-18/25
25	29.5	81	58	5.5	13	7	25	–	–	33	150 736 MUP-18/25
32	37	35	22	6.6	–	–	–	41.5	35	89	150 737 MUP-32
40	46	35	22	6.6	–	–	–	47	40	126	150 738 MUP-40
50	61	50	26	11	–	–	–	70	58	241	150 739 MUP-50
63	69	50	26	11	–	–	–	77	65	340	150 800 MUP-63

Passive guide axes FDG, without drive

FESTO

Accessories

Shock absorber YSR-...-C

(Order code: C)

Material:

Housing: Galvanised steel; piston rod:

high-alloy steel,

Seals: Perbunan, polyurethane

Free of copper, PTFE and silicone



Note

Shock absorber YSRW with

progressive characteristic

→ Internet: ysrw

Ordering data		
For size	Weight [g]	Part No. Type
18	30	34 571 YSR-8-8-C
25	70	34 572 YSR-12-12-C
32	70	34 572 YSR-12-12-C
40	140	34 573 YSR-16-20-C
50	140	34 573 YSR-16-20-C
63	240	34 574 YSR-20-25-C

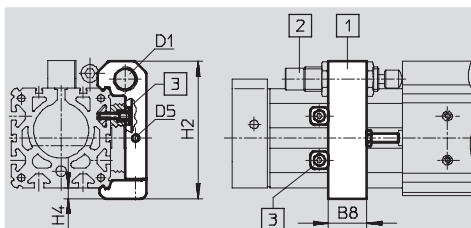
Shock absorber retainer KYP

(Order code: C)

Material:

Retainer: Aluminium

Sleeve: Steel, corrosion resistant



- 1 Shock absorber retainer KYP (if the retainer is in contact with the front cap, i.e. cap serves to secure the position, the entire stroke length can be utilised)
- 2 Shock absorber YSR-...-C
- 3 Position retainer (included in scope of delivery) either behind or underneath the shock absorber retainer KYP

Dimensions and ordering data							
For size	B8	D1	D5	H2	H4	Weight [g]	Part No. Type
18	14	M12x1	M4	50.5	4.5	66	158 907 KYP-18
25	19	M16x1	M5	69.5	6	95	158 908 KYP-25
32	25	M16x1	M5	80	8	130	158 909 KYP-32
40	32	M22x1.5	M5	102	8	209	158 910 KYP-40
50	35	M22x1.5	M8	124	10	415	158 911 KYP-50
63	44	M26x1.5	M10	152.5	11.5	609	158 912 KYP-63

Passive guide axes FDG, without drive

Accessories

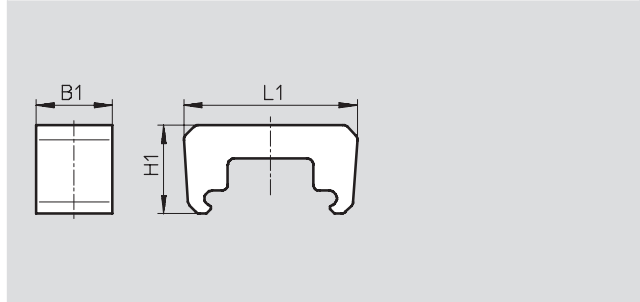
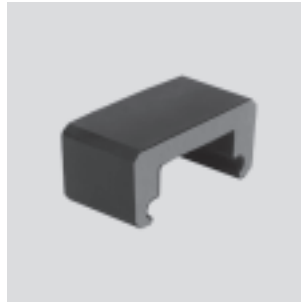
FESTO

Emergency buffer NPE

(Order code: A)

Material:

Polyurethane



Dimensions and ordering data						
For size	B1	L1	H1	Weight [g]	Part No.	Type
18	15	43.1	28.5	6	193 901	NPE-18
25	25	57	29	12	193 902	NPE-25
40	40	80.5	36	41	193 904	NPE-40
63	60	128.6	55	152	193 906	NPE-63

Note

The emergency buffer can only be used in conjunction with shock absorber retainer KYP. → 21
(A threaded pin and nut are not required.)

Shock absorber DG-GA

for protected version GA

(Order code: E)

Material:

Housing: Galvanised steel; piston rod: high-alloy steel

Seals: Perbunan, polyurethane

Free of copper, PTFE and silicone



Ordering data			
For size	Weight [g]	Part No.	Type
25	70	192 875	DG-GA-25-YSR
40	140	192 877	DG-GA-40-YSR

Passive guide axes FDG, without drive

FESTO

Accessories

Sensor bracket HWS

For inductive proximity sensors

(Order code: T)

Material:

Galvanised steel

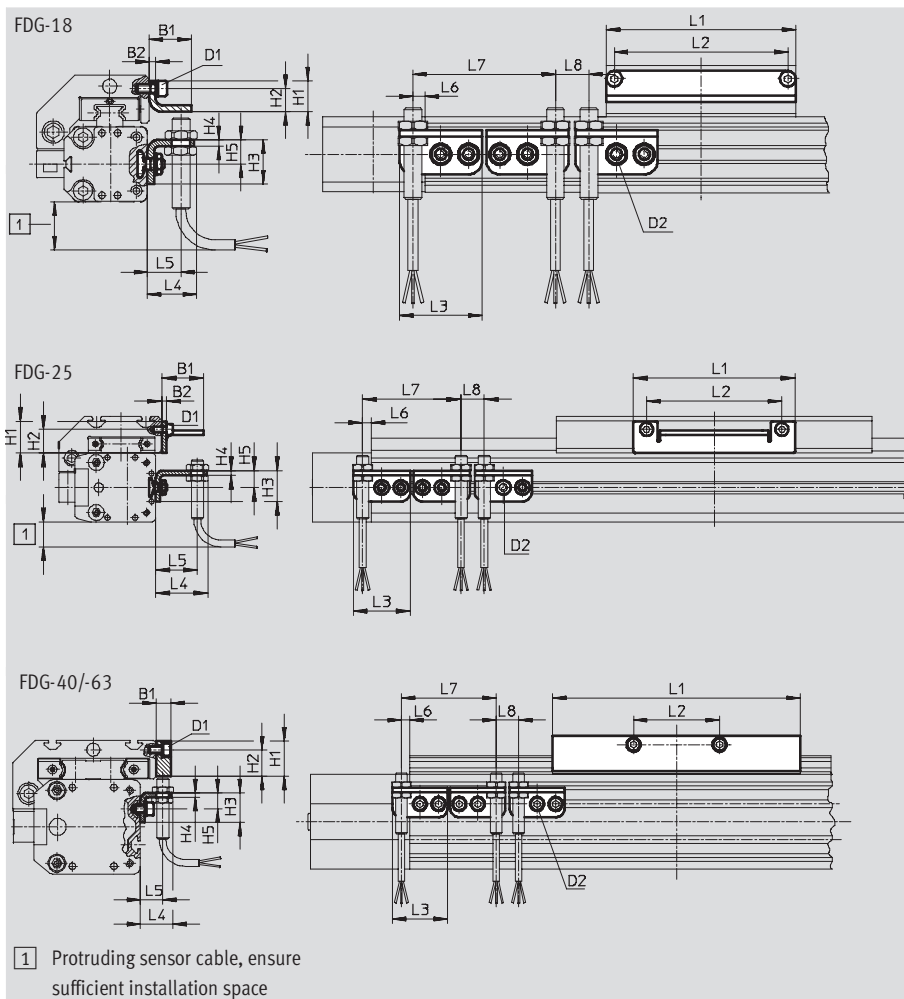


Switching lug SF

(Order code: L)

Material:

Galvanised steel



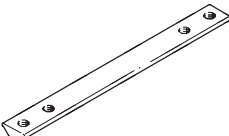
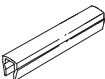
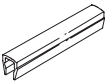
Dimensions and ordering data											
For size	D1	D2	B1	B2	H1	H2	H3	H4	H5	L1	L2
18	M4	M5	19	3	14	10.5	20	3	11	85	78
25	M5	M5	27	3	20.5	15.3	20	3	11	105	88
40	M5	M5	10	–	24	18	20	3	11	167	58
63	M8	M5	10	–	35	25	20	3	11	230	72

For size	L3	L4	L5	L6 max.	L7 min.	L8 min.	Weight [g]	Part No.	Type
18	37	22.5	15	5.5	64	15	30	188 968	HWS-18/25-M8
							60	188 964	SF-18
25	37	34.5	27	5.5	64	15	30	540 780	HWS-25-MAB-M8
							80	540 430	SF-25-MAB
40	37	22.5	15	5.5	64	15	40	188 969	HWS-40-M8
							310	188 966	SF-40
63	37	22.5	15	5.5	64	15	40	188 970	HWS-63-M8
							630	188 967	SF-63

Passive guide axes FDG, without drive

Accessories

FESTO

Ordering data						
	For size	Remarks	Order code	Part No.	Type	PU ¹⁾
Slot nut NST				Technical data → Internet: nst		
	18, 25	For mounting slot	Y	526 091	NST-HMV-M4	1
	32, 40			150 914	NST-5-M5	1
	50, 63			150 915	NST-8-M6	1
Slot nut NSTL				Technical data → Internet: nstl		
	25	For slide	X	158 410	NSTL-25	1
	32			158 411	NSTL-32	1
	40			158 412	NSTL-40	1
	50			158 413	NSTL-50	1
	63			158 414	NSTL-63	1
Centring pin/sleeve ZBS/ZBH				Technical data → Internet: zbs, zbh		
	18	For slide	Z	150 928	ZBS-5	10
	25 ... 63			150 927	ZBH-9	10
Slot cover ABP				Technical data → Internet: abp		
	32, 40	For mounting slot	B	151 681	ABP-5	2
	50, 63	0.5 m each		151 682	ABP-8	
Slot cover ABP-S				Technical data → Internet: abp		
	18 ... 63	For sensor slot 0.5 m each	S	151 680	ABP-5-S	2

1) Packaging unit quantity

Passive guide axes FDG, without drive

Accessories

FESTO

Ordering data – Inductive proximity sensors M8						Technical data ➔ Internet: sien	
	Electrical connection		Switch output	LED	Cable length [m]	Part No.	Type
	Cables	M8 plug					
NO contact							
	3-wire	–	PNP	■	2.5	150 386	SIEN-M8B-PS-K-L
	–	3-pin	PNP	■	–	150 387	SIEN-M8B-PS-S-L
NC contact							
	3-wire	–	PNP	■	2.5	150 390	SIEN-M8B-PO-K-L
	–	3-pin	PNP	■	–	150 391	SIEN-M8B-PO-S-L

Ordering data – Connecting cables				Technical data → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 333	NEBU-M8G3-K-2.5-LE3
			5	541 334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
			5	541 341	NEBU-M8W3-K-5-LE3

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