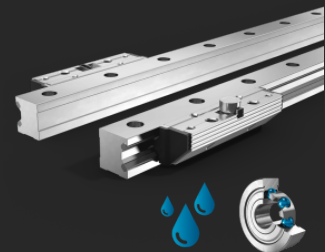


Linear Guides Type FDG-R

Pair of single rails and

Pair of Roller Shoes

Non-corrosive Low-cost



Aluminum roller guides of type FDG are equipped with stainless steel raceways and ball bearings. They offer insensitivity to environmental influences at an affordable price.

Description

Franke FDG linear guides are suitable for linear motion tasks in almost all industries. They are particularly convincing in cost-sensitive applications in harsh environments and with reduced demands on load capacity. Rail elements can be manufactured in a length of 200 mm to 4000 mm and, on request, can also be linked endlessly.

Characteristics

Rollers	Ball bearing
Raceway	NIRO steel

Properties

Resilience	● ●
Dynamics	● ● ●
Corrosion resistant	● ● ● ● ● ●
Non magnetic	●
Lubricant free	●
Price	● ● ●

Technical data

Stroke length

One piece from 200 mm to 4000 mm, connectable on request

Material

Cassette plate, roller shoes,
 Rail body: aluminum, anodized
 Raceways: NIRO steel
 Rollers: NIRO steel

Operating temperature

-20 °C to +80 °C

Maximum speed

10 m/s

Maximum acceleration

40 m/s²

Mounting position

Any

Lubricant

Lifetime-lubricated, maintenance-free

Linear Guides Type FDG-R

Pair of single rails and

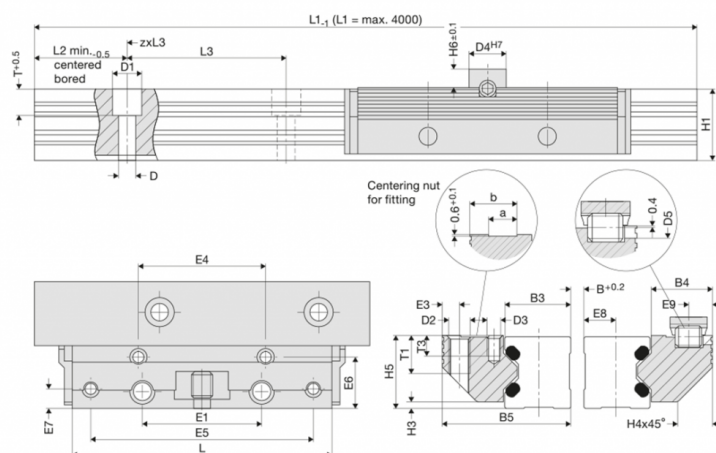
Pair of Roller Shoes

Non-corrosive Low-cost

Innovation in Motion



Data tables



FDG-R

Size	Dimensions mm														
	L	B5	H5	B3	B4	D3	D	D1	D2	D4	D5	E1	E3	E4	E5
12	64	24,4	15,0	12,00	11,9	M 3	3,4	6	M 4	8	3	25	3,4	29	57
15	78	30,9	19,0	15,25	15,2	M 4	4,5	8	M 5	10	4	30	4,4	34	68
20	92	40,9	23,0	20,00	20,4	M 5	5,5	10	M 6	10	4	40	4,9	42	80
25	98	48,4	27,5	25,00	22,9	M 5	6,6	11	M 8	14	6	45	6,4	48	84
35	135	68,9	37,5	35,00	32,9	M 6	9,0	15	M10	14	6	62	8,9	67	117
45	165	82,4	46,5	45,00	36,4	M 8	11,0	18	M12	14	6	80	9,9	83	146

FDG-R

Size	Dimensions mm												
	E6	E7	E8	E9	H1	H3	H4	H6	L3	T	T3	a	b
12	9,7	3,4	5,5	4,9	14,7	1,4	5,5	4	40	5,5	6,0	4,5	9,5
15	12,4	4,9	7,0	5,9	18,7	2,0	8,0	5	60	6,0	7,5	5,0	12,5
20	16,9	5,9	9,5	5,9	22,6	2,0	11,0	5	60	8,0	8,0	7,5	16,0
25	19,4	7,4	12,0	8,9	27,0	2,5	13,0	7	60	10,0	5,0	10,5	17,5
35	28,4	8,9	17,0	8,9	37,0	3,5	20,0	7	80	11,5	8,5	12,5	26,0
45	30,9	9,9	22,0	8,9	46,0	4,0	22,0	7	105	14,5	9,5	15,5	31,0

Linear Guides Type FDG-R

Pair of single rails and

Pair of Roller Shoes

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Innovation in Motion



Basic load ratings, weight, length

Size	Load ratings N		Moment capacities pair of roller shoes Nm				Weight kg		Order no.	Delivery time*	
	C	C ₀	M _{0cx}	M _{cx}	M _{0cy} /M _{0cz}	M _{cy} /M _{cz}	PRS	Rail/m			
12	620	170	0,08 (B+30,3)	0,30 (B+30,3)	2,4	8,9	0,07	0,40	84495LN	on request	
15	700	230	0,10 (B+36,5)	0,35 (B+36,5)	4	12	0,12	0,80	84395LN	on request	
20	940	300	0,15 (B+47,0)	0,50 (B+47,0)	6	19	0,23	1,20	84442LN	on request	
25	1500	700	0,35 (B+58,4)	0,70 (B+58,4)	15	32	0,35	1,80	84367LN	on request	
35	3100	1400	0,70 (B+85,0)	1,50 (B+85,0)	42	95	1,00	3,10	84368LN	on request	
45	6300	2700	1,40 (B+109,0)	3,10 (B+109,0)	103	238	1,80	5,00	84369LN	on request	

* Prices and delivery times are ex works Germany and are subject to change without notice. In other countries, prices and delivery times may vary due to different taxes, duties, charges and fees.
For actual sales prices and delivery conditions in your country, please contact our local representative.

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