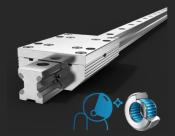
Franke

Linear guide type FDI-K Double rail and cassette Suitable for vacuum



Aluminum roller guides of type FDI are special guides suitable for use in high-vacuum. The full needled bearings are equipped with vacuum-compatible lubricant.

Description

Franke FDI linear guides are equipped with vacuumcompatible needle bearings and are made almost entirely of lightweight aluminum. Special design, material and lubricants prevent outgassing in a vacuum. Rail elements can be manufactured in a length of 200 mm to 4000 mm and, on request, can also be linked endlessly.

Characteristics

Rollers	Needle bearing
Raceway	Non corrosive steel

Properties

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

Technical data

Stroke length

One piece from 500 mm to 4000 mm, longer strokes on request

Material

Cassette plate, roller shoes, Rail body: aluminum, not anodised Raceways: non-corrosive steel Rollers: non-corrosive bearing steel, full needled

Operation range

Ultra High vacuum 10⁻⁷ to 10⁻¹² mbar

Operating temperature -20 °C to +80 °

Maximum speed 1 m/s

-

Maximum acceleration 5 m/s^2

Mounting position Any

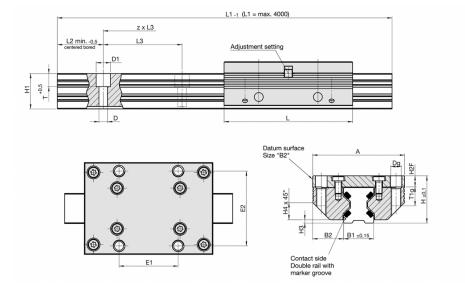
Lubricant

Lifetime-lubricated with high-vacuum suitable grease, maintenance-free

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Data tables



FDI-K									
Size	Dimensions mm								
	А	L	н	B1	B2	D	D1	Dg	E1
12	37	64	19	12,00	12,50	3,4	6	M 4	25
12	47	78	24	12,00	15,75	4,5	8	M 5	30
20	63	92	30	21,00	21,00	5,5	10	M 6	40
25	70	98	36	23,00	23,50	6,6	11	M 8	45
35	100	135	48	32,00	34,00	9,0	15	M 10	62
45	120	165	60	45,00	37,50	11,0	18	M 12	80

FDI-K

Size	Dimensions mm								
	E2	H1	H2F	H3	H4	L2	L3	т	T1g
12	30	14,7	4,0	1,4	5,5	10	40	5,5	8
15	38	18,7	5,0	2,0	8,0	10	60	6,0	10
20	53	22,6	7,0	2,0	11,0	10	60	8,0	12
25	57	27,0	8,5	2,5	13,0	10	60	10,0	16
35	82	37,0	10,5	3,5	20,0	12	80	11,5	20
45	100	46,0	13,5	4,0	22,0	16	105	14,5	24



Basic load ratings, weight, length

Size		ratings N	Moment capacities cassette Nm			Weight kg		Order no.	Delivery time*	
	С	Co	M _{Ocx}	M_{cx}	${\sf M}_{\rm 0cy}/{\sf M}_{\rm 0cz}$	M_{cy}/M_{cz}	Cassette	Rail/m		
12	550	600	5,5	5,0	8,5	8,0	0,09	0,40	84494NV	3 weeks
15	1350	1500	17,0	15,0	26,0	23,0	0,17	0,80	84396NV	3 weeks
20	2150	2500	36,0	30,0	51,5	44,0	0,35	1,30	84441NV	3 weeks
25	2900	4150	66,0	46,0	92,0	64,0	0,50	1,60	84363NV	3 weeks
35	5000	7250	171,0	118,0	226,0	125,0	1,40	2,60	84364NV	3 weeks
45	8500	10200	325,0	271,0	387,0	322,0	2,50	4,50	84365NV	3 weeks

* 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.

Contact

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