

Recirculating Ball Bearing Guide Series KF 16 to 50 for Linear Drive



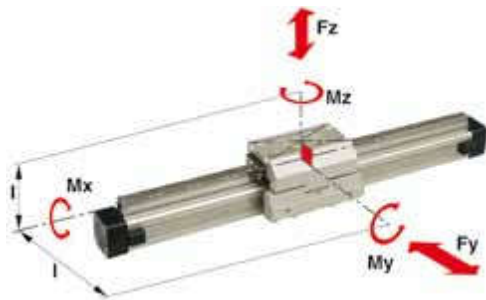
Features:

- Anodized aluminium guide carriage, the mounting dimensions correspond to FESTO Type: DGPL-KF
- Polished and hardened steel guide rail
- For high loads in all directions
- High precision
- Integrated wiper system
- Integrated grease nipples
- Any length of stroke up to 3700 mm



- Maximum speed
 KF16, KF40: v = 3 m/s
 KF25, KF32, KF50: v = 5 m/s

Loads, Forces and Moments



Technical Data

The table shows the maximal permissible loads. If multiple moments and forces act upon the cylinder simultaneously, the following equation applies:

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

The sum of the loads should not exceed >1.

The table shows the maximum permissible values for light, shock-free operation, which must not be exceeded even under dynamic conditions.

*** Please note:**

The mass of the carriage has to be added to the total moving mass when using the cushioning diagram

Series	For linear drive	Max. moments [Nm]			Max. loads [N]		Mass of linear drive with guide [kg]		Mass* guide carriage [kg]	Groove stone Thread size	Order No.	
		Mx	My	Mz	Fy	Fz	with 0 mm stroke	increase per 100 mm stroke			Groove stone	Guide without cylinder
KF 16	OSP-P16	12	25	25	1000	1000	0.558	0.21	0.228	-	-	21101FIL
KF 25	OSP-P25	35	90	90	3100	3100	1.522	0.369	0.607	M5	13508FIL	21102FIL
KF 32	OSP-P32	44	133	133	3100	3100	2.673	0.526	0.896	M5	13508FIL	21103FIL
KF 40	OSP-P40	119	346	346	4000	7100	4.167	0.701	1.531	M6	13509FIL	21104FIL
KF 50	OSP-P50	170	480	480	4000	7500	7.328	0.936	2.760	M8	13510FIL	21105FIL