

Aluminium Roller Guide PROLINE Series PL 16 to 50 for Linear Drive

Features:

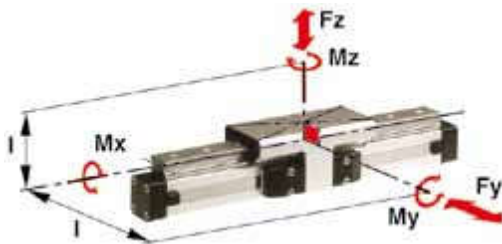
- High precision
- High velocities (10 m/s)
- Smooth operation - low noise
- Integrated wiper system
- Long life lubrication
- Compact dimensions - compatible to Slideline plain bearing guide
- Any length of stroke up to 3750 mm



Integrated Brake (optional) for series OSP-P25 to OSP-P50:

- Actuated by pressurisation
- Released by depressurisation and spring actuation

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:

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

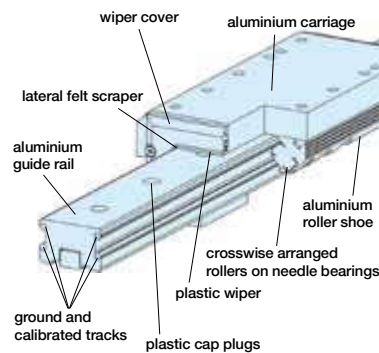
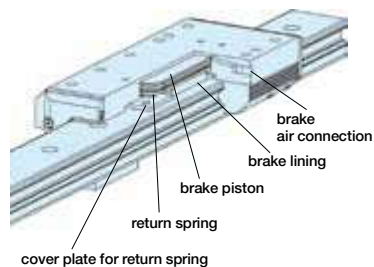
The sum of the loads should not exceed >1. With a load factor of less than 1, service life is 8000 km

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

Option - Integrated Brake



Series	For linear drive	Max. moments [Nm]			Max. loads [N] Fy, Fz	Maximum braking force at 6 bar [N] ¹⁾	Mass of linear drive with guide [kg]		Mass* guide carriage [kg]	Order No. PROLINE	
		Mx	My	Mz			with 0 mm stroke	increase per 100 mm stroke		Guide without brake	with cylinder with brake
PL 16	OSP-P16	8	12	12	542	-	0.55	0.19	0.24	20855FIL	-
PL 25	OSP-P25	16	39	39	857	on request	1.65	0.40	0.75	20856FIL	20860FIL
PL 32	OSP-P32	29	73	73	1171	on request	3.24	0.62	1.18	20857 FIL	20861FIL
PL 40	OSP-P40	57	158	158	2074	on request	4.35	0.70	1.70	20858FIL	20862FIL
PL 50	OSP-P50	111	249	249	3111	on request	7.03	0.95	2.50	20859FIL	20863FIL

¹⁾ Only for version with brake:

Braking surface dry – oiled surface reduces the effective braking force.