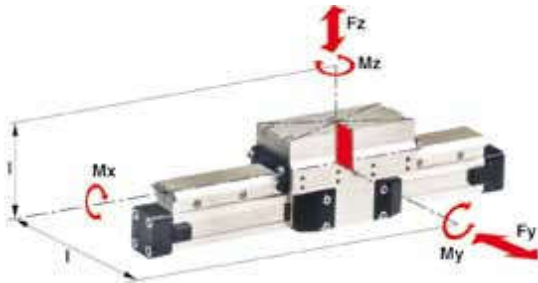


**Multi-Brake
 Passive Brake**
 with plain bearing guide Slideline SL
 Series MB-SL 25 to 80 for Linear Drive

Features:

- Brake operated by spring actuation
- Brake release by pressurisation
- Anodised aluminium rail, with prism shaped slide elements
- Adjustable plastic slide elements
- Composite sealing system with plastic and felt wiper elements to remove dirt and lubricate the slideway
- Replenishable guide lubrication by integrated grease nipples
- Blocking function in case of pressure loss
- Intermediate stops possible

Loads, Forces and Moments

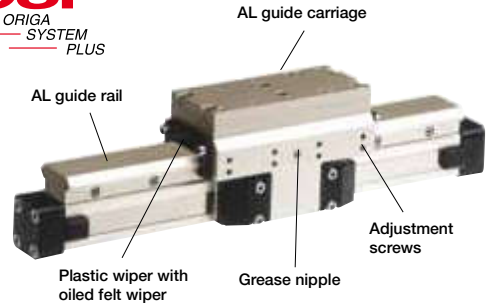


Technical Data

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

Load and moment data are based on speeds $v < 0,2$ m/s.
 Operating pressure 4.5 - 8 bar
 A pressure of 4.5 bar is required to release the brake.

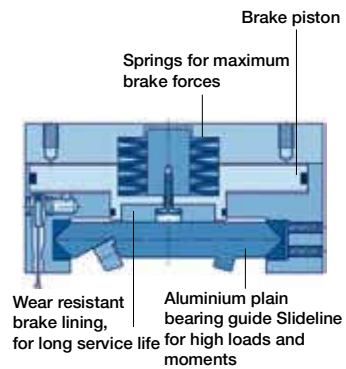
For further technical information, please refer to the data sheets for linear drives OSP-P see catalogue P-A4P011GB.



Function:

The Multi-Brake is a passive device. When the air pressure is removed the brake is actuated and movement of the cylinder is blocked. The brake is released by pressurisation. The high friction, wear resistant brake linings allow the Multi-Brake to be used as a dynamic brake to stop cylinder movement in the shortest possible time. The powerful springs also allow the Multi-Brake to be used effectively in positioning applications.

Function



*** Please note:**

in the cushioning diagram, the mass of the guide carriage has to be added to the total moving mass.

¹⁾ Braking surface dry – oil on the braking surface will reduce the braking force

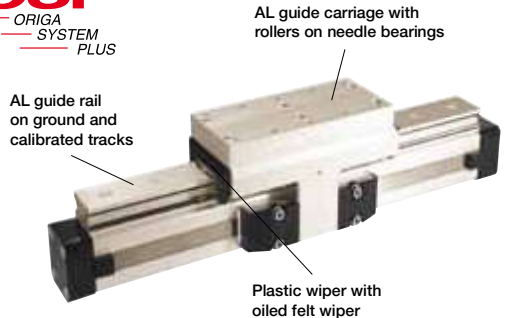
Series	For linear drive	Max. moments [Nm]			Max. loads [N] Fy, Fz	Max. brake force [N] ¹⁾	Mass of linear drive with guide [kg]		Mass* guide carriage [kg]	Order No. – MB-SL Guide with passive brake without cylinder*
		Mx	My	Mz			with 0 mm stroke	increase per 100 mm stroke		
MB-SL 25	OSP-P25	14	34	34	675	470	2.04	0.39	1.10	20796FIL
MB-SL 32	OSP-P32	29	60	60	925	790	3.82	0.65	1.79	20797FIL
MB-SL 40	OSP-P40	50	110	110	1500	1200	5.16	0.78	2.34	20798FIL
MB-SL 50	OSP-P50	77	180	180	2000	1870	8.29	0.97	3.63	20799FIL
MB-SL 63	OSP-P63	120	260	260	2500	2900	13.31	1.47	4.97	20800FIL
MB-SL 80	OSP-P80	120	260	260	2500	2900	17.36	1.81	4.97	20846FIL

Multi-Brake Passive Brake

with Aluminium Roller Guide Proline PL
Series MB-PL 25 to 50 for Linear Drive

Features:

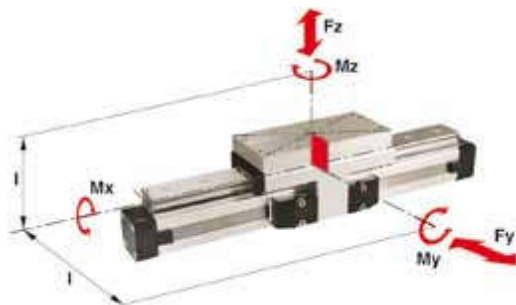
- Brake operated by spring actuation
- Brake release by pressurisation
- Composite sealing system with plastic and felt wiper elements to remove dirt and lubricate the slideway
- Blocking function in case of pressure loss
- Intermediate stops possible



Function:

The Multi-Brake is a passive device. When the air pressure is removed the brake is actuated and movement of the cylinder is blocked. The brake is released by pressurisation. The high friction, wear resistant brake linings allow the Multi-Brake to be used as a dynamic brake to stop cylinder movement in the shortest possible time. The powerful springs also allow the Multi-Brake to be used effectively in positioning applications.

Loads, Forces and Moments



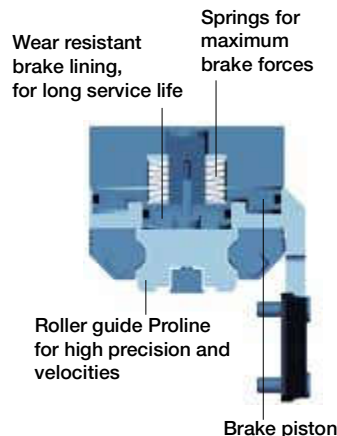
Technical Data

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

Function



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

Operating Pressure 4.5 - 8 bar. A pressure of min. 4.5 bar release the brake.

Series	For linear drive	Max. moments [Nm]			Max. loads [N] Fy, Fz	Max. brake force [N] ¹⁾	Mass of linear drive with guide [kg]		Mass* guide carriage [kg]	Order No. – MB-PL Guide with passive brake without cylinder*
		Mx	My	Mz			with 0mm stroke	increase per 100mm stroke		
MB-PL25	OSP-P25	16	39	39	857	315	2.14	0.40	1.24	20864FIL
MB-PL32	OSP-P32	29	73	73	1171	490	4.08	0.62	2.02	20865FIL
MB-PL40	OSP-P40	57	158	158	2074	715	5.46	0.70	2.82	20866FIL
MB-PL50	OSP-P50	111	249	249	3111	1100	8.60	0.95	4.07	20867FIL

¹⁾ Braking surface dry – oil on the braking surface will reduce the braking force