

**Recirculating Ball Bearing Guide
 STARLINE
 Series STL 16 to 50 for Linear Drive**

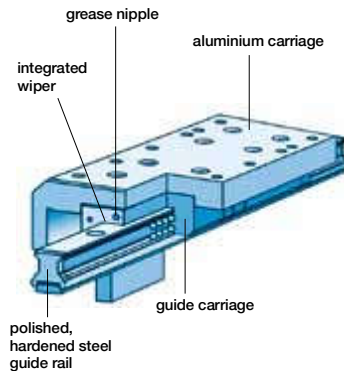
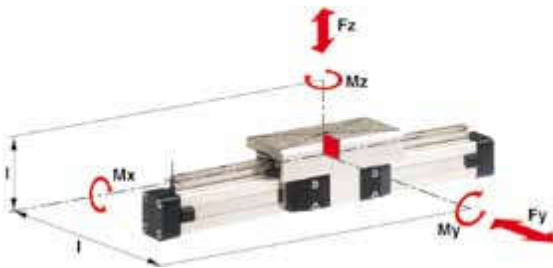


Features:

- Polished and hardened steel guide rail
- For very high loads in all directions
- High precision
- Integrated wiper system
- Integrated grease nipples
- Any length of stroke up to 3700 mm
- Anodized aluminium guide carriage
 – dimensions compatible with OSP guides
 SLIDELINE and PROLINE
- Installation height (STL16 - 32) compatible with
 OSP guides SLIDELINE and PROLINE

- Maximum speed
 STL16: v = 3 m/s
 STL25 to 50: 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]	Order No. STARLINE Guide without cylinder
		Mx	My	Mz	Fy	Fz	with 0 mm stroke	increase per 100 mm stroke		
STL16	OSP-P16	15	30	30	1000	1000	0.598	0.210	0.268	21111FIL
STL25	OSP-P25	50	110	110	3100	3100	1.733	0.369	0.835	21112FIL
STL32	OSP-P32	62	160	160	3100	3100	2.934	0.526	1.181	21113FIL
STL40	OSP-P40	150	400	400	4000	7500	4.452	0.701	1.901	21114FIL
STL50	OSP-P50	210	580	580	4000	7500	7.361	0.936	2.880	21115FIL