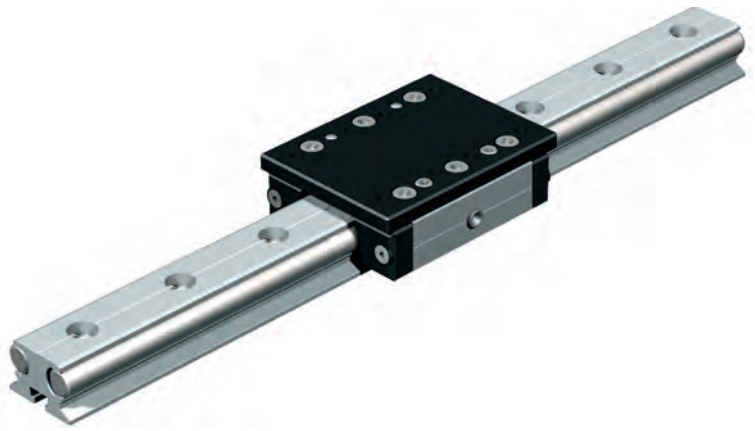
Linear guide rail

LFS-12-10



Features

- W 36 × H 24.5 mm
- 2 precision steel shafts Ø 12
- anti-twist
- Aluminium shaft housing profile, naturally anodised
- Fixing from below with M6 tapped rails in T-groove insert and from above M6 drillings in 50 mm raster
- conditionally freeloading
- Special lengths to order
- Weight: appr. 2.9 kg/m

Ordering key

220 001 XXXX

Length in mm (in 100 mm raster)
e.g. **0300** = Length 296
3000 = Length 2996

Profile length = Length overall L -1 mm

Special lengths over 3000 with rod linkage to order.

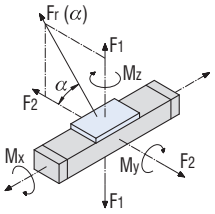
Loading data

Slide WS 8/70	
C_o	3303 N
C	1873 N
F_1 stat.	2821 N
F_1 dyn.	1599 N
F_2 stat.	3303 N
F_2 dyn.	1873 N
M_x stat.	46.7 Nm
M_y stat.	105.3 Nm
M_z stat.	123.3 Nm
M_x dyn.	26.4 Nm
M_y dyn.	59.7 Nm
M_z dyn.	69.9 Nm

Slide WS 8	
C_o	4868 N
C	2426 N
F_1 stat.	4157 N
F_1 dyn.	2071 N
F_2 stat.	4868 N
F_2 dyn.	2426 N
M_x stat.	68.8 Nm
M_y stat.	155.2 Nm
M_z stat.	181.7 Nm
M_x dyn.	34.2 Nm
M_y dyn.	77.3 Nm
M_z dyn.	90.5 Nm

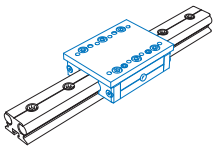
Carriage LW 4	
C_o	2160 N
C	4000 N
F_1 stat.	4320 N
F_1 dyn.	3846 N
F_2 stat.	2160 N
F_2 dyn.	4000 N
M_x stat.	135.4 Nm
M_y stat.	194.4 Nm
M_z stat.	97.2 Nm
M_x dyn.	120.5 Nm
M_y dyn.	173,0 Nm
M_z dyn.	180.0 Nm

	Dual track set 1	Dual track set 2
C_o	645 N	1905 N
C	600 N	1125 N
F_1 stat.	652 N	1927 N
F_1 dyn.	607 N	1138 N
F_2 stat.	645 N	1905 N
F_2 dyn.	600 N	1125 N
M_x stat.	16.0 Nm	46.0 Nm
M_y stat.	13.0 Nm	119 Nm
M_z stat.	13.0 Nm	118 Nm
M_x dyn.	15.0 Nm	27.0 Nm
M_y dyn.	12.0 Nm	71.0 Nm
M_z dyn.	12.0 Nm	70.0 Nm



$$Fr(\alpha) = \frac{F2}{\cos \alpha}$$

$$Fr(\alpha) = \frac{F1}{\sin \alpha}$$

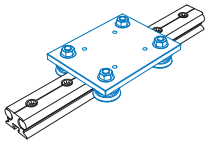


Slide

- ground steel plate
- lubrication system option
- adjustable for no play

L 100 × W 75 × H 31.5 mm (WS 8/70)
(Weight: appr. 0.7 kg)
Part no.: **223108 0070**

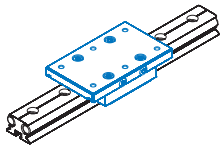
L 150 × W 75 × H 31.5 mm (WS 8)
(Weight: appr. 1.0 kg)
Part no.: **223108**



Carriage LW 4

- L 125 × W 97 × H 7.7 mm
- ground steel plate
- 4 rollers Ø 31, sealed for life
- adjustable for no play
- Weight: 1.02 kg

Part no.: **223009**



For steel shafts Ø 12 mm

Dual track set 1

- L75 x W75 x H30.2 mm
- with 2 SMALL linear ball bearings

Part no.: **223001**

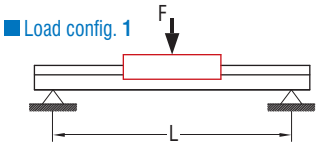
Dual track set 2

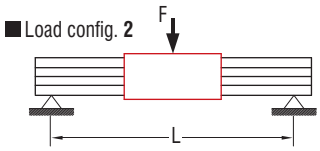
- L125 x W75 x H30.2 mm
- with 2 LARGE linear ball bearings

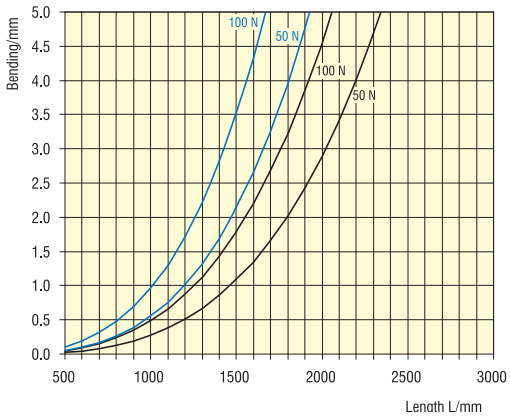
Part no.: **223002**

Linear guide rail LFS-12-10

Bending

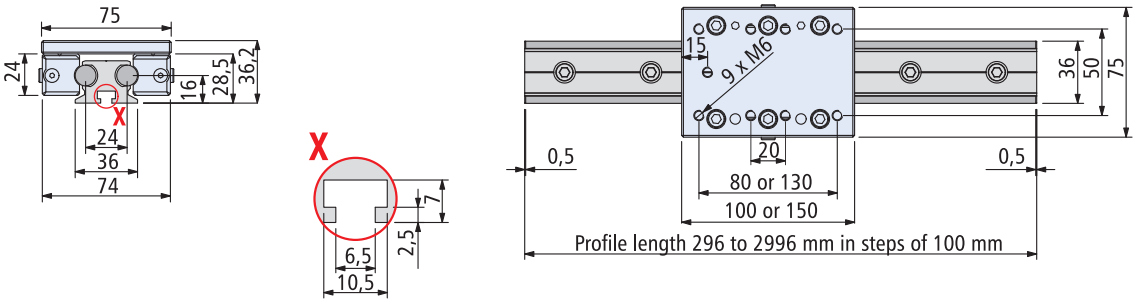




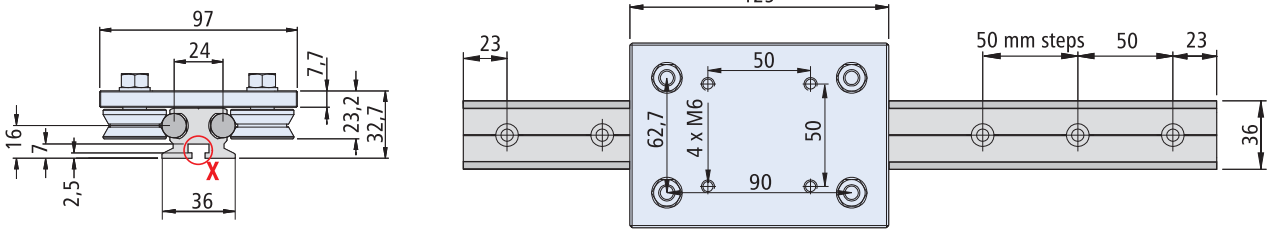


Dimensioned drawings

LFS-12-10 with slide **WS 8**



LFS-12-10 with Carriage **LW 4**



LFS-12-10 with dual track set