

Linear guide rail

LFS-12-11



Features

- W 20 × H 31 mm
- Precision steel shaft Ø 12
- Aluminium shaft housing profile, naturally anodised
- Securing from below with M6 tapped rails in T-groove insert on flat surface
- Special lengths to order
- Weight: appr. 1.3 kg/m

Ordering key

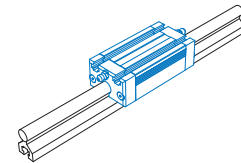
220 002 XXXX

Length in mm

e.g. **0298** = Length 298

0998 = Length 998

Profile length = Length overall L - 2 mm



Aluminium slide

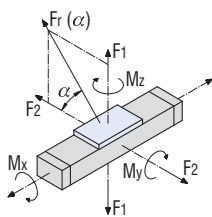
- With recirculating ball guide
- M6 T-groove inserts
- Central lubrication system option
- Adjustable for no play
- Option: stainless steel design

Loading data

Shaft slide WS 6/70	
C ₀	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.	-
M _y stat.	105.3 Nm
M _z stat.	123.3 Nm
M _x dyn.	-
M _y dyn.	59.7 Nm
M _z dyn.	69.9 Nm

Shaft slide WS 6	
C ₀	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.	-
M _y stat.	155.2 Nm
M _z stat.	181.7 Nm
M _x dyn.	-
M _y dyn.	77.3 Nm
M _z dyn.	90.5 Nm

Carriage LW 5	
C ₀	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.	-
M _y stat.	162.0 Nm
M _z stat.	81.0 Nm
M _x dyn.	-
M _y dyn.	144.2 Nm
M _z dyn.	150.0 Nm



$$F_r(\alpha) = \frac{F_2}{\cos \alpha}$$

$$F_r(\alpha) = \frac{F_1}{\sin \alpha}$$

L 96 × W 50 × H 31.5 mm (WS 6/70)
(Weight: appr. 0.3 kg)

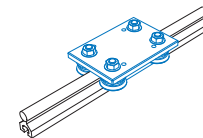
Part no.: **223106 0070**

Stainless steel: **223106 1070**

L 126 × W 50 × H 31.5 mm (WS 6)
(Weight: appr. 0.5 kg)

Part no.: **223106**

Stainless steel: **223106 1000**



Carriage LW 5

- L 110 × W 75 × H 7.7 mm
- ground steel plate
- 4 rollers Ø 31, sealed for life
- adjustable for no play
- Weight: 0.81 kg

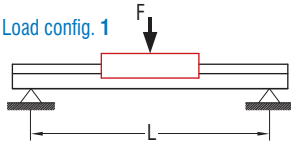
Part no.: **223010**

Linear guide rail

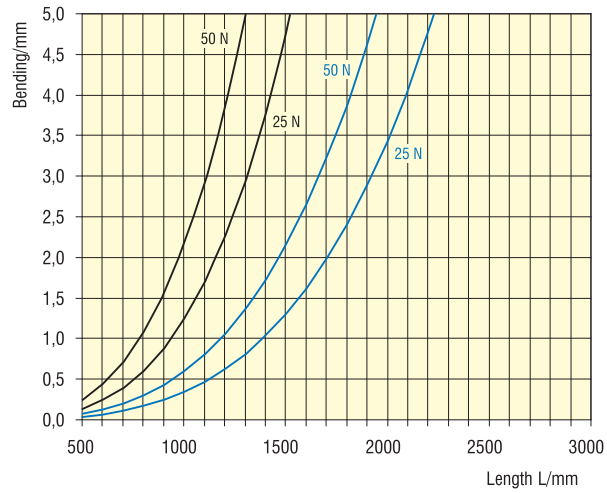
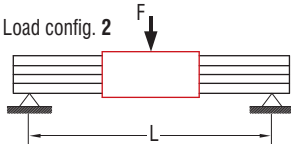
LFS-12-11

Bending

■ Load config. 1

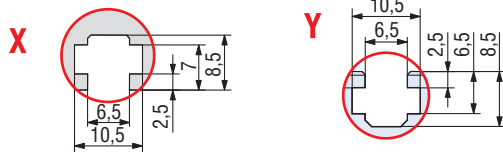
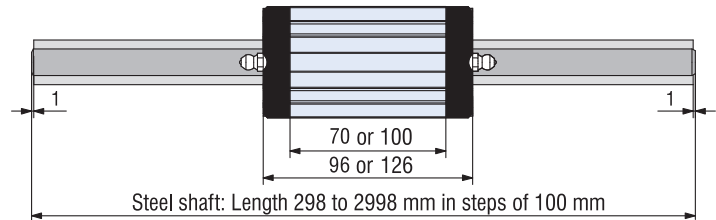
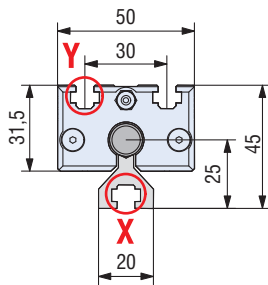


■ Load config. 2



Dimensioned drawings

LFS-12-11 with aluminium slide **WS 6/70** or **WS 6**



LFS-12-11 with Carriage **LW5**

