

Linear guide rail

LFS-12-2



Features

- W 62 × H 31 mm
- 2 precision steel shafts Ø 12
- Anti-twist lock
- Aluminium shaft housing profile, naturally anodised
- High parallelism through patented shaft housing outline
- High guidance accuracy
- Securing from above or below using drillings Ø 6.5 in 100 mm raster on flat surface
- Lengths in 100 mm raster
- Max. length up to 2998 mm
- Special lengths to order
- Weight: appr. 3.3 kg/m

Ordering key

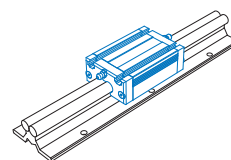
235 200 XXXX

Length in mm

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

0998 = Length 998

Profile length = Length overall L -2 mm



Aluminium slide

- With recirculating ball guide
- Clamping surface plane milled
- Option: stainless steel design

L 94 × W 62 × H 31.5 mm (WS 4/70)

(Weight: appr. 0.33 kg)

Part no.: **223104 0070**

Stainless steel: **223104 1070**

L 124 × W 62 × H 31.5 mm (WS 4)

(Weight: appr. 0.46 kg)

Part no.: **223104**

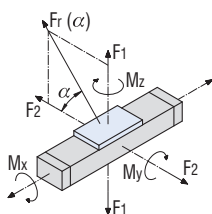
Stainless steel: **223104 1000**

Loading data

Shaft slide WS 4/70	
C ₀	3003 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.	29.8 Nm
M _y stat.	105.3 Nm
M _z stat.	123.3 Nm
M _x dyn.	16.8 Nm
M _y dyn.	59.7 Nm
M _z dyn.	69.9 Nm

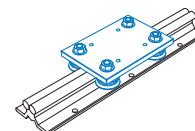
Shaft slide WS 4	
C ₀	4868 N
C	2426 N
F ₁ stat.	4157 N
F ₁ dyn.	2071 N
F ₂ stat.	4868 N
F ₂ dyn.	2426 N
M _x stat.	43.9 Nm
M _y stat.	155.2 Nm
M _z stat.	181.7 Nm
M _x dyn.	21.8 Nm
M _y dyn.	77.3 Nm
M _z dyn.	90.5 Nm

Carriage LW 3	
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.	109.5 Nm
M _y stat.	194.4 Nm
M _z stat.	97.2 Nm
M _x dyn.	97.4 Nm
M _y dyn.	173.0 Nm
M _z dyn.	180.0 Nm



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

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



Carriage LW 3

- L 125 × W 85 × H 7.7 mm
- ground steel plate
- Weight: 0.93 kg

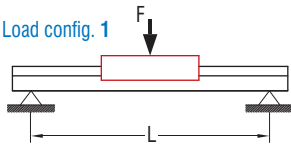
Part no.: **223008**

Linear guide rail

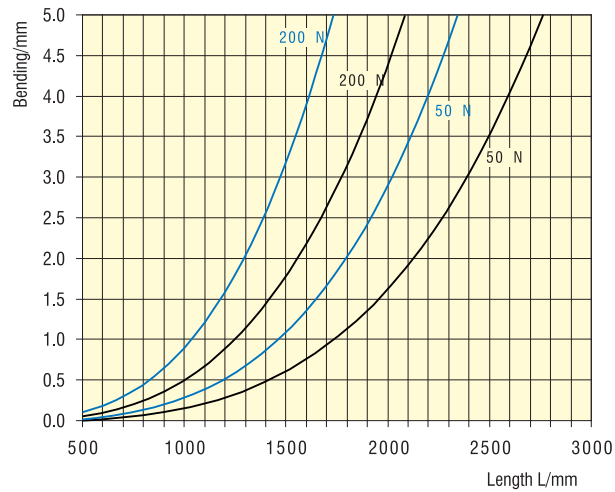
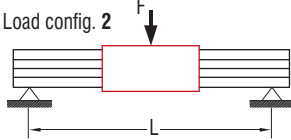
LFS-12-2

Bending

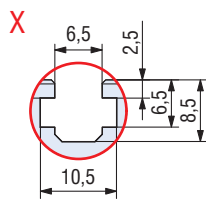
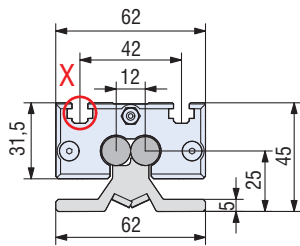
■ Load config. 1



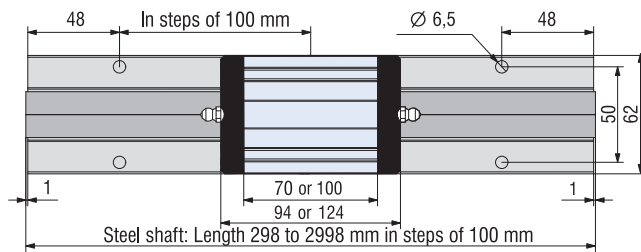
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Dimensioned drawings



LFS-12-2 with aluminium slide WS 4/70 or WS 4



LFS-12-2 with Carriage LW3

