

# Linear guide rail

# LFS-12-11



## Features

- W 20 x H 31 mm
- Precision steel shaft Ø 12
- Aluminium shaft housing profile, naturally anodised
- Securing from below with M6 tapped rail in T-slot insert on flat surface
- Special lengths available on request
- Weight: approx. 1.3 kg/m

## Ordering key

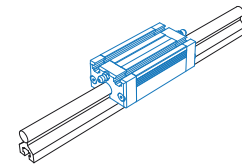
**220 002 XXXX**

Length in mm

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

**0998** = Length 998

Profile length = Length overall L -2 mm



## Aluminium slides

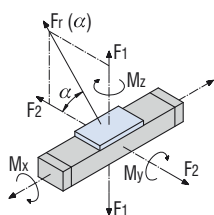
- With recirculating ball guide
- M6 T-slot inserts
- Central lubrication system option
- Adjustable for no play
- Option: stainless steel version

## Load data

Shaft slides WS 6/70	
C <sub>0</sub>	3303 N
C	1873 N
F <sub>1</sub> static	2821 N
F <sub>1</sub> dynamic	1599 N
F <sub>2</sub> static	3303 N
F <sub>2</sub> dynamic	1873 N
M <sub>x</sub> static	-
M <sub>y</sub> static	105.3 Nm
M <sub>z</sub> static	123.3 Nm
M <sub>x</sub> dynamic	-
M <sub>y</sub> dynamic	59.7 Nm
M <sub>z</sub> dynamic	69.9 Nm

Shaft slides WS 6	
C <sub>0</sub>	4868 N
C	2426 N
F <sub>1</sub> static	4157 N
F <sub>1</sub> dynamic	2071 N
F <sub>2</sub> static	4868 N
F <sub>2</sub> dynamic	2426 N
M <sub>x</sub> static	-
M <sub>y</sub> static	155.2 Nm
M <sub>z</sub> static	181.7 Nm
M <sub>x</sub> dynamic	-
M <sub>y</sub> dynamic	77.3 Nm
M <sub>z</sub> dynamic	90.5 Nm

Trolley LW 5	
C <sub>0</sub>	2160 N
C	4000 N
F <sub>1</sub> static	4320 N
F <sub>1</sub> dynamic	3846 N
F <sub>2</sub> static	2160 N
F <sub>2</sub> dynamic	4000 N
M <sub>x</sub> static	-
M <sub>y</sub> static	162.0 Nm
M <sub>z</sub> static	81.0 Nm
M <sub>x</sub> dynamic	-
M <sub>y</sub> dynamic	144.2 Nm
M <sub>z</sub> dynamic	150.0 Nm



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

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

L 96 x W 50 x H 31.5 mm (WS 6/70)  
(weight: approx. 0.3 kg)

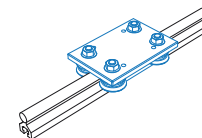
Part no.: **223106 0070**

Stainless steel: **223106 1070**

L 126 x W 50 x H 31,5 mm (WS 6)  
(weight: approx. 0.5 kg)

Part no.: **223106**

Stainless steel: **223106 1000**



## Trolley LW 5

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

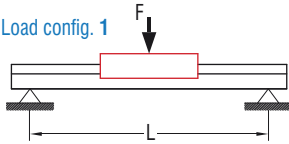
Part no.: **223010**

# Linear guide rail

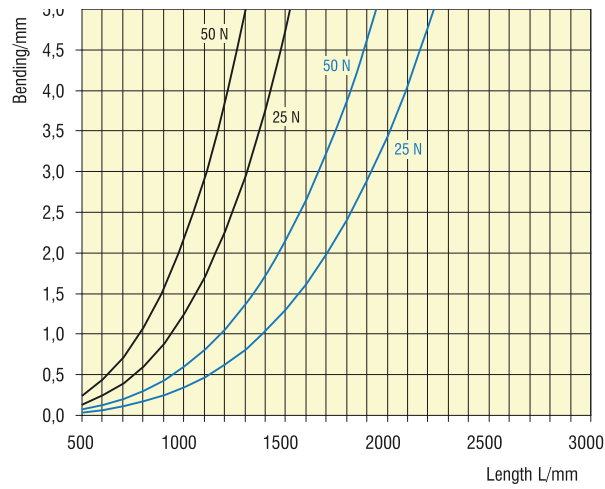
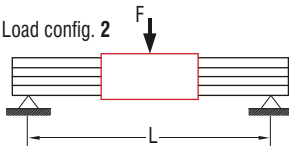
# LFS-12-11

## Bending

■ Load config. 1

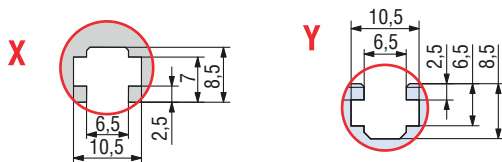
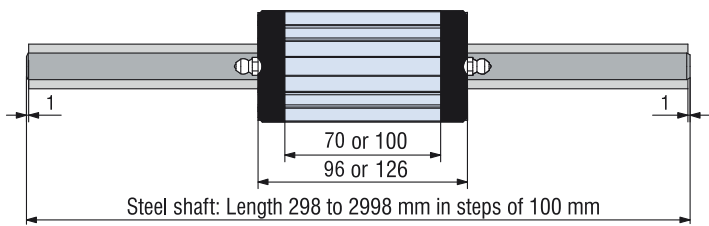
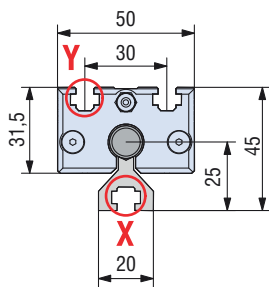


■ Load config. 2



## Dimensioned drawings

LFS-12-11 with aluminium slides WS 6/70 or WS 6



LFS-12-11 with trolley LW5

