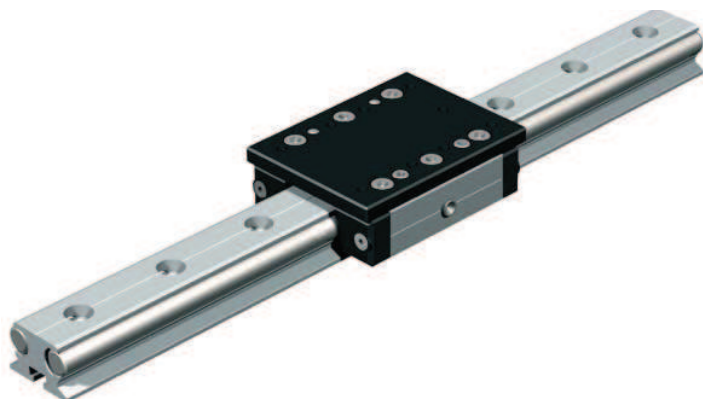


# Linear guide rail

# LFS-12-10



## Features

- W 36 x H 24.5 mm
- 2 precision steel shafts Ø 12
- Anti-twist
- Aluminium shaft housing profile, naturally anodised
- Fixing from below with M6 tapped rail in T-slot insert and from above M6 drillings in the Raster 50 mm
- Conditionally self-supporting
- Special lengths to order
- Weight: approx. 2.9 kg/m

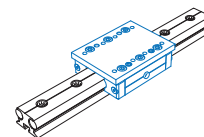
## Ordering key

**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 mm with rod linkage to order.

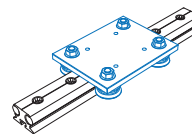


## Slides

- Ground steel plate
- Lubrication system option
- Adjustable for no play

L 100 x W 75 x H 31.5 mm (WS 8/70)  
(weight: approx. 0.7 kg)  
Part no.: **223108 0070**

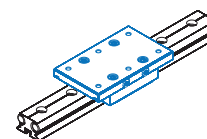
L 150 x W 75 x H 31.5 mm (WS 8)  
(weight: approx. 1,0 kg)  
Part no.: **223108**



## Trolley LW 4

- L 125 x W 97 x 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

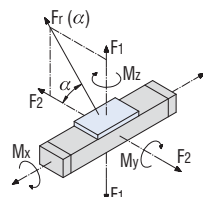
- L75 x W75 x H30.2 mm
  - With 2 SMALL linear ball bearings
- Part no.: **223001**

## Dual track set 2

- L125 x W75 x H30.2 mm
  - With 2 LARGE linear ball bearings
- Part no.: **223002**

## Load data

Slides WS 8/70		Slides WS 8		Trolley LW 4		Dual track set 1		Dual track set 2	
C <sub>0</sub>	3303 N	C <sub>0</sub>	4868 N	C <sub>0</sub>	2160 N	C <sub>0</sub>	645 N	1905 N	
C	1873 N	C	2426 N	C	4000 N	C	600 N	1125 N	
F <sub>1</sub> static	2821 N	F <sub>1</sub> static	4157 N	F <sub>1</sub> static	4320 N	F <sub>1</sub> static	652 N	1927 N	
F <sub>1</sub> dynamic	1599 N	F <sub>1</sub> dynamic	2071 N	F <sub>1</sub> dynamic	3846 N	F <sub>1</sub> dynamic	607 N	1138 N	
F <sub>2</sub> static	3303 N	F <sub>2</sub> static	4868 N	F <sub>2</sub> static	2160 N	F <sub>2</sub> static	645 N	1905 N	
F <sub>2</sub> dynamic	1873 N	F <sub>2</sub> dynamic	2426 N	F <sub>2</sub> dynamic	4000 N	F <sub>2</sub> dynamic	600 N	1125 N	
M <sub>x</sub> static	46.7 Nm	M <sub>x</sub> static	68.8 Nm	M <sub>x</sub> static	135.4 Nm	M <sub>x</sub> static	16.0 Nm	46.0 Nm	
M <sub>y</sub> static	105.3 Nm	M <sub>y</sub> static	155.2 Nm	M <sub>y</sub> static	194.4 Nm	M <sub>y</sub> static	13.0 Nm	119 Nm	
M <sub>z</sub> static	123.3 Nm	M <sub>z</sub> static	181.7 Nm	M <sub>z</sub> static	97.2 Nm	M <sub>z</sub> static	13.0 Nm	118 Nm	
M <sub>x</sub> dynamic	26.4 Nm	M <sub>x</sub> dynamic	34.2 Nm	M <sub>x</sub> dynamic	120.5 Nm	M <sub>x</sub> dynamic	15.0 Nm	27.0 Nm	
M <sub>y</sub> dynamic	59.7 Nm	M <sub>y</sub> dynamic	77.3 Nm	M <sub>y</sub> dynamic	173.0 Nm	M <sub>y</sub> dynamic	12.0 Nm	71.0 Nm	
M <sub>z</sub> dynamic	69.9 Nm	M <sub>z</sub> dynamic	90.5 Nm	M <sub>z</sub> dynamic	180.0 Nm	M <sub>z</sub> dynamic	12.0 Nm	70.0 Nm	



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

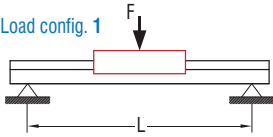
$$Fr(\alpha) = \frac{F_1}{\sin \alpha}$$

# Linear guide rail

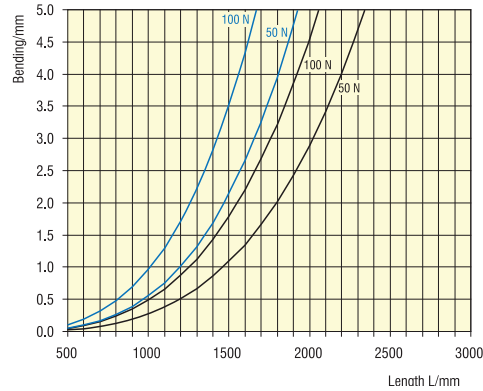
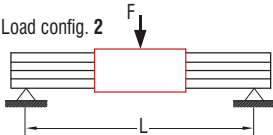
# LFS-12-10

## Bending

■ Load config. 1

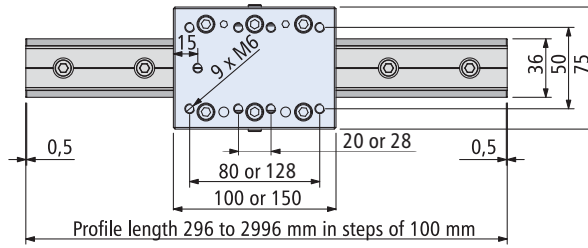
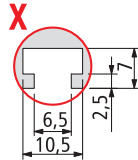
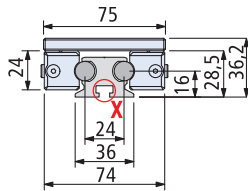


■ Load config. 2

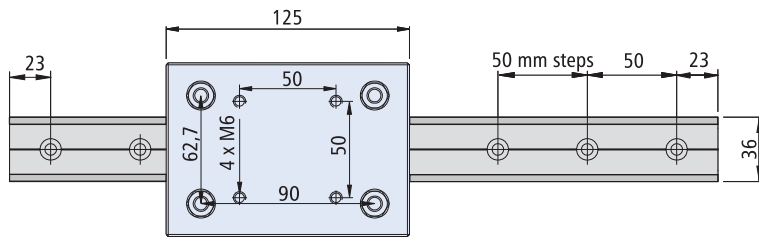
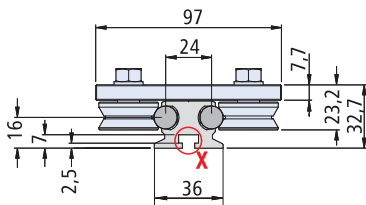


## Dimensioned drawings

LFS-12-10 with slides WS 8



LFS-12-10 with trolley LW 4



LFS-12-10 with dual track set

