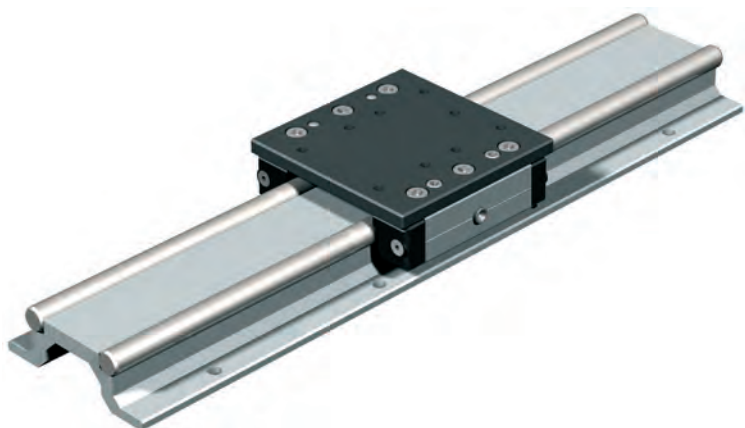


# Linear guide rail

# LFS-12-3



## Features

- W 90 × H 31 mm
- 2 precision steel shafts Ø 12
- anti-twist
- Aluminium shaft housing profile, naturally anodised
- increased shaft spacing allows higher torques to be absorbed
- Securing from above or below with M6 drillings in 100 mm raster
- Any guide length
- Weight: appr. 3.9 kg/m

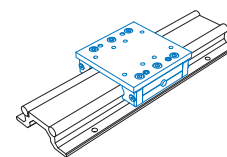
## Ordering key

**235 300 XXXX**

Length in mm (in 100 mm raster)  
 e.g. **0029** = Length 298  
**0299** = Length 2998

Profile length = Length overall L - 2 mm

Special lengths over 3000 mm with rod linkage to order.



## Slide

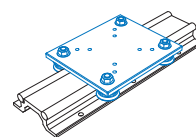
- ground steel plate
- central lubrication system option
- adjustable for no play

L 100 × W 100 × H 32 mm (WS 7/70)  
 (Weight: appr. 0.8 kg)

Part no.: **223107 0070**

L 200 × W 100 × H 32 mm (WS 7)  
 (Weight: appr. 1.7 kg)

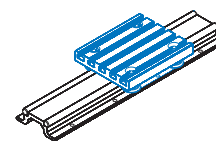
Part no.: **223107**



## Carriage LW 8

- L 150 × W 125 × H 7.5 mm
- ground steel plate
- 4 rollers Ø 31, sealed for life
- adjustable for no play
- Weight: 1.51 kg

Part no.: **223013**



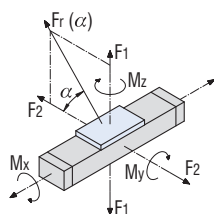
## Carriage LW 2

- L 150 × W 125 × H 34.5 mm
- Aluminium T-groove plate
- 4 rollers Ø 31, sealed for life
- adjustable for no play
- Weight: 0.97 kg

Part no.: **223005**

## Loading data

Shaft slide WS 7/70		Shaft slide WS 7		Carriage LW 2		Carriage LW 8	
C <sub>0</sub>	3303 N	C <sub>0</sub>	7303 N	C <sub>0</sub>	3114 N	C <sub>0</sub>	2160 N
C	1873 N	C	3179 N	C	1846 N	C	4000 N
F <sub>1</sub> stat.	2821 N	F <sub>1</sub> stat.	6237 N	F <sub>1</sub> stat.	2659 N	F <sub>1</sub> stat.	4320 N
F <sub>1</sub> dyn.	1599 N	F <sub>1</sub> dyn.	2715 N	F <sub>1</sub> dyn.	1576 N	F <sub>1</sub> dyn.	3846 N
F <sub>2</sub> stat.	3303 N	F <sub>2</sub> stat.	7303 N	F <sub>2</sub> stat.	3114 N	F <sub>2</sub> stat.	2160 N
F <sub>2</sub> dyn.	1873 N	F <sub>2</sub> dyn.	3179 N	F <sub>2</sub> dyn.	1846 N	F <sub>2</sub> dyn.	4000 N
M <sub>x</sub> stat.	82.0 Nm	M <sub>x</sub> stat.	181.2 Nm	M <sub>x</sub> stat.	216.0 Nm	M <sub>x</sub> stat.	189.2 Nm
M <sub>y</sub> stat.	105.3 Nm	M <sub>y</sub> stat.	232.8 Nm	M <sub>y</sub> stat.	100.5 Nm	M <sub>y</sub> stat.	248.4 Nm
M <sub>z</sub> stat.	123.3 Nm	M <sub>z</sub> stat.	272.5 Nm	M <sub>z</sub> stat.	108.0 Nm	M <sub>z</sub> stat.	124.2 Nm
M <sub>x</sub> dyn.	46.4 Nm	M <sub>x</sub> dyn.	78.8 Nm	M <sub>x</sub> dyn.	168.4 Nm	M <sub>x</sub> dyn.	168.4 Nm
M <sub>y</sub> dyn.	59.7 Nm	M <sub>y</sub> dyn.	101.3 Nm	M <sub>y</sub> dyn.	192.3 Nm	M <sub>y</sub> dyn.	221.1 Nm
M <sub>z</sub> dyn.	69.9 Nm	M <sub>z</sub> dyn.	118.6 Nm	M <sub>z</sub> dyn.	200.0 Nm	M <sub>z</sub> dyn.	230.0 Nm



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

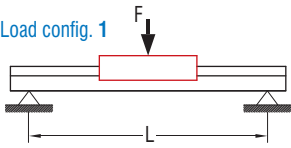
$$Fr(\alpha) = \frac{F_1}{\sin \alpha}$$

# Linear guide rail

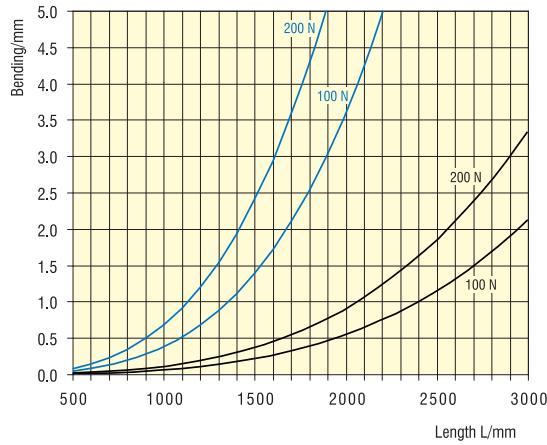
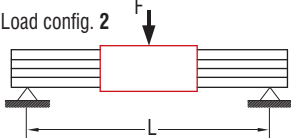
# LFS-12-3

## Bending

■ Load config. 1

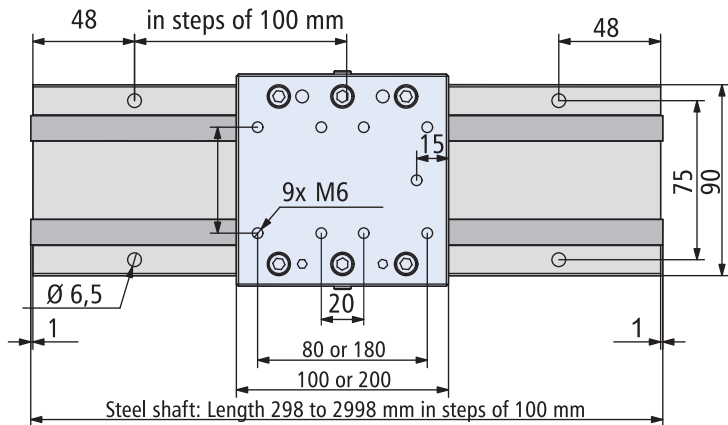
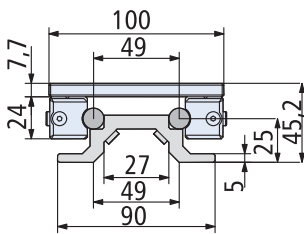


■ Load config. 2

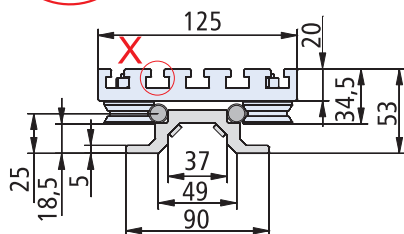
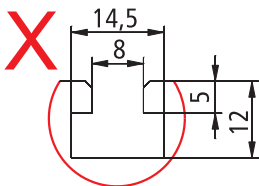
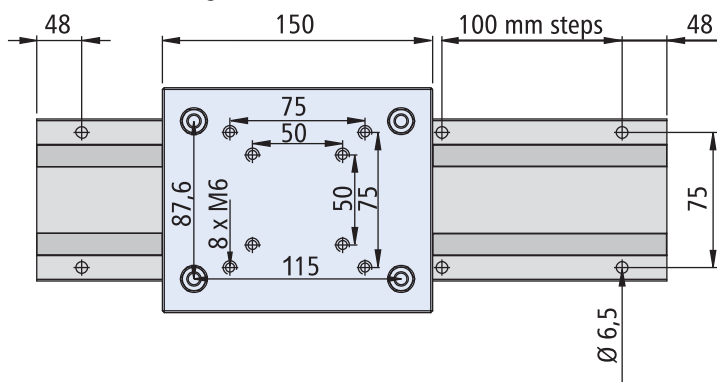
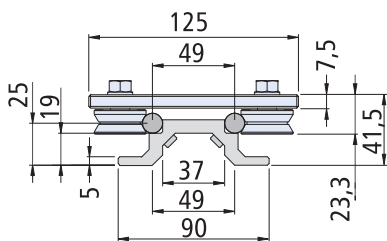


## Dimensioned drawings

LFS-12-3 with aluminium slide WS 7



LFS-12-3 with Carriage LW 8



LFS-12-3 with Carriage LW 2

