



# Linear guide rail type LFS-12-3



## Linear guide rail

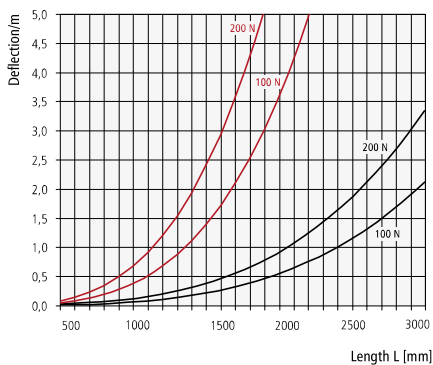
- W 90 x H 31 mm
- 2 precision steel shafts Ø 12 mm
- twist-proof
- Aluminum shaft mounting profile, natural anodized
- Increased shaft distance enabling the reception of higher moments
- Fastening from above or from below by using through-holes for M6 inside the grid of 100 mm
- Any guide length possible
- Weight: approx. 3.9 kg/m

### Order key

235300 XXXX  
 for example 0298 = L 298  
 2998 = L 2,998

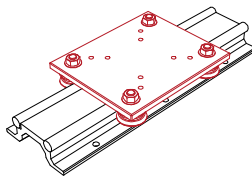
Length in mm (in a grid of 100mm)

Profile length = total length L - 2 mm  
 Special lengths over 3000 mm equipped with rod connection upon request.



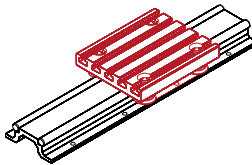
## Carriage

- Clearance-free adjustment possible
- 4 rollers Ø 31 mm, lubricated over the entire service life



### LW 8

- L 150 x W 125 x H 7.5 mm
- Ground steel plate
- Weight: 1.51 kg
- Itemno.: 223013

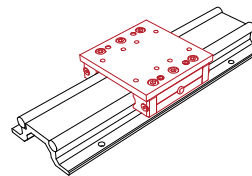


### LW 2

- L 150 x W 125 x H 34.5 mm
- Aluminum T-slot plate
- Weight: 0.97 kg
- Itemno.: 223005

## Linear guide slide

- Ground steel plate
- Central lubrication option
- Clearance-free adjustment possible

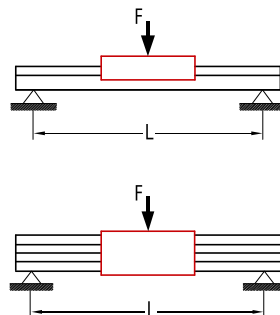


### WS 7/70

- L 100 x W 100 x H 32 mm
- Weight: approx. 0.8 kg
- Itemno.: 223107 0070

### WS 7

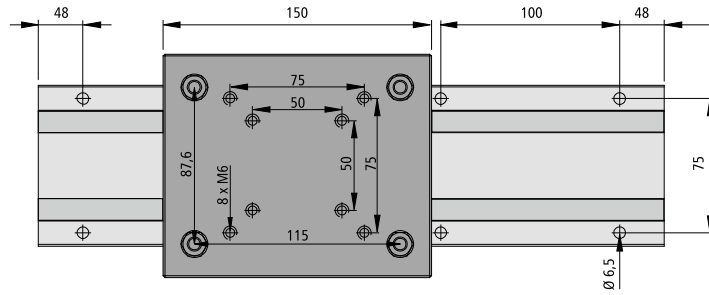
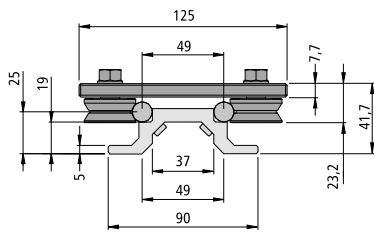
- L 200 x W 100 x H 32 mm
- Weight: approx. 1.7 kg
- Itemno.: 223107



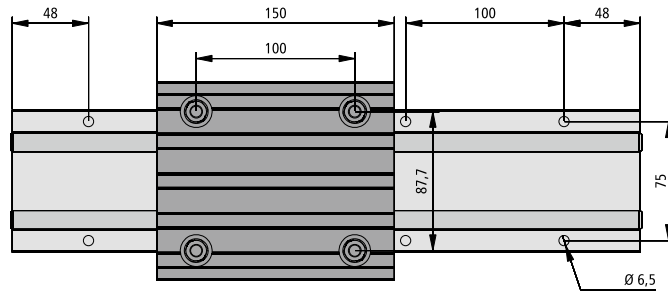
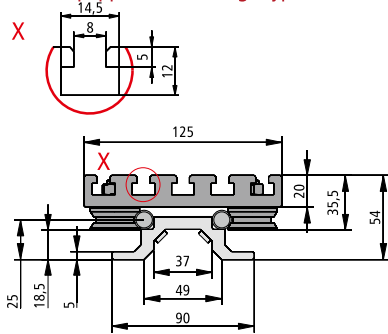


**Dimensional drawing**

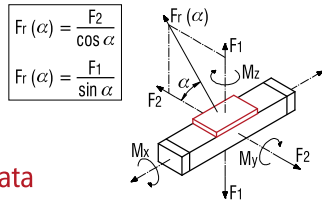
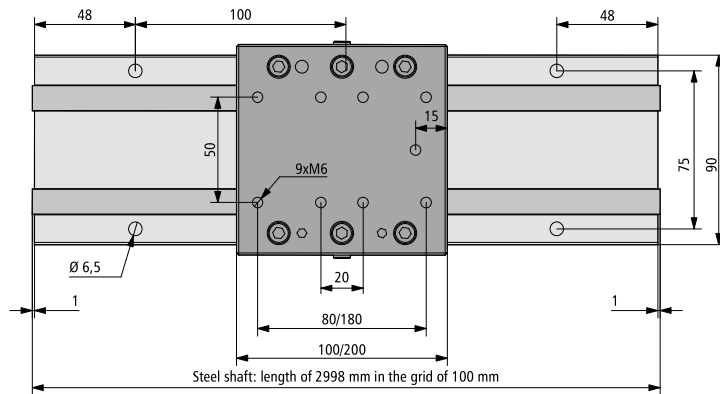
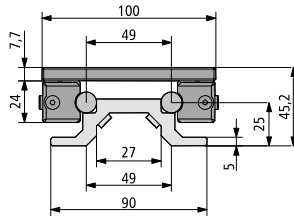
LFS-12-3 equipped with carriage type LW 8



LFS-12-3 equipped with carriage type LW 2



LFS-12-3 equipped with aluminum slide type WS 7



**Load data**

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