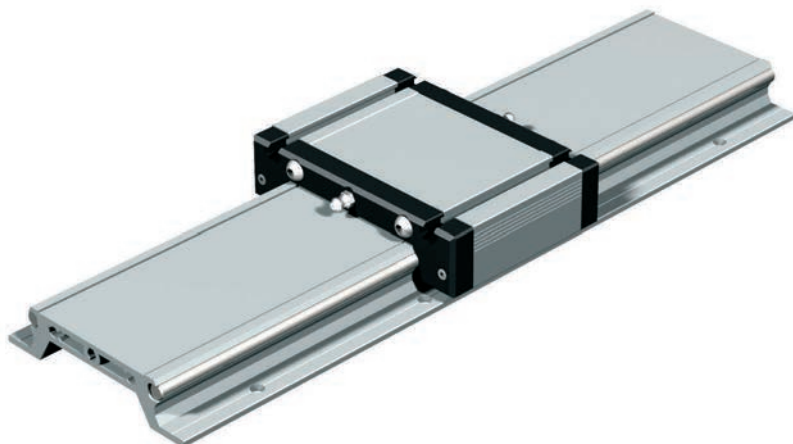


# Linear guide rails

# LFS-8-3



## Features

- W 115 x H 25.5 mm
- 2 precision steel shafts Ø 8 mm
- particularly resistant to twisting
- aluminium shaft housing profile, naturally anodised
- fixing from above through M6 drillings in the raster 100 mm
- conditionally self-supporting
- special lengths to order
- weight: approx. 3.2 kg/m
- option: stainless steel version

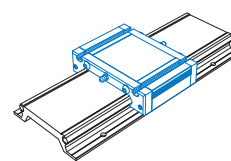
## Ordering key

### 235 00X XXXX

Standard = 4      Length in mm (in 100 mm raster)  
 Stainless = 5      e.g. 0029 = Length 296  
                               0299 = Length 2996

Length overall L -1 mm

Profile up to 6000 mm available without impact connection, steel shafts divided.



## Aluminium slide

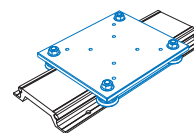
- with recirculating ball guide
- clamping surface plane milled
- M6 T-key inserts
- central lubrication option
- adjustable for no play
- option: stainless steel version

L 96 x W 130 x H 32 mm (WS 3/70)  
 (weight: approx. 0.5 kg)

Part no.: **223103 0070**  
 Stainless steel: **223103 1070**

L 176 x W 130 x H 32 mm (WS 3)  
 (weight: approx. 0.9 kg)

Part no.: **223103**  
 Stainless steel: **223103 1000**



## Trolley LW 7

- L 175 x W 150 x H 7.5 mm
- ground steel plate
- 4 rollers Ø 31 mm, sealed for life
- adjustable for no play
- weight: approx. 2 kg

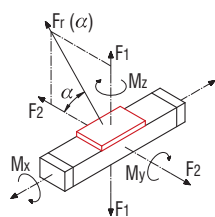
Part no.: **223012**

## Load data

Shaft slide WS 3/70	
C <sub>0</sub>	3141 N
C	1879 N
F <sub>1</sub> static	2682 N
F <sub>1</sub> dynamic	1604 N
F <sub>2</sub> static	3141 N
F <sub>2</sub> dynamic	1879 N
M <sub>x</sub> static	115.7 Nm
M <sub>y</sub> static	105.3 Nm
M <sub>z</sub> static	123.3 Nm
M <sub>x</sub> dynamic	69.2 Nm
M <sub>y</sub> dynamic	62.9 Nm
M <sub>z</sub> dynamic	73.7 Nm

Shaft slide WS 3	
C <sub>0</sub>	6945 N
C	3190 N
F <sub>1</sub> static	5931 N
F <sub>1</sub> dynamic	2724 N
F <sub>2</sub> static	6945 N
F <sub>2</sub> dynamic	3190 N
M <sub>x</sub> static	255.9 Nm
M <sub>y</sub> static	232.8 Nm
M <sub>z</sub> static	272.5 Nm
M <sub>x</sub> dynamic	117.5 Nm
M <sub>y</sub> dynamic	106.9 Nm
M <sub>z</sub> dynamic	125.1 Nm

Trolley LW 7	
C <sub>0</sub>	2160 N
C	4000 N
F <sub>1</sub> static	4320 N
F <sub>1</sub> dynamic	3792 N
F <sub>2</sub> static	2160 N
F <sub>2</sub> dynamic	4000 N
M <sub>x</sub> static	246.8 Nm
M <sub>y</sub> static	302.4 Nm
M <sub>z</sub> static	151.2 Nm
M <sub>x</sub> dynamic	216.7 Nm
M <sub>y</sub> dynamic	265.4 Nm
M <sub>z</sub> dynamic	280 Nm



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

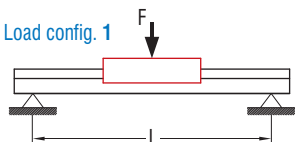
$$Fr(\alpha) = \frac{F_1}{\sin \alpha}$$

# Linear guide rails

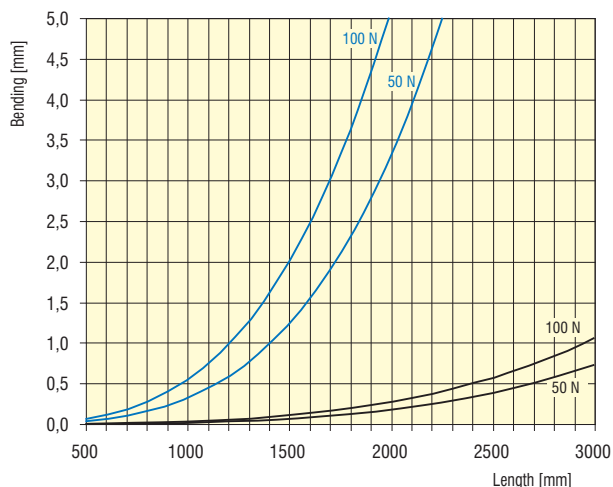
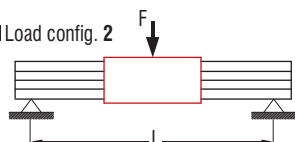
# LFS-8-3

## Bending

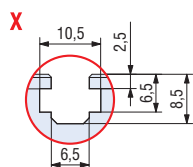
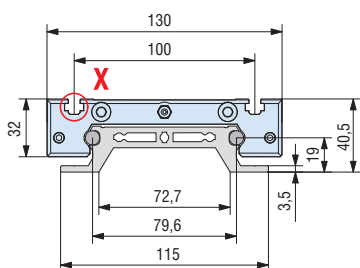
■ Load config. 1



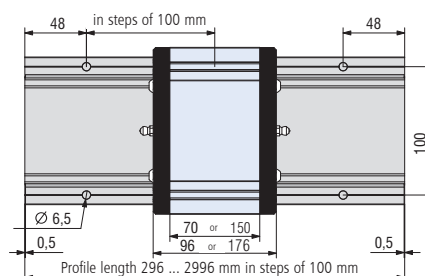
■ Load config. 2



## Dimensioned drawings



LFS-8-3 with aluminium slide WS 3/70 or WS 3



LFS-8-3 with trolley LW7

