

# Linear units with toothed belt drive

## LEZ 2

Guides and shaft slides also available in a stainless version



with shaft slide



with trolley

### Features

- Aluminium profile with miniature linear guide LFS-8-5
- No-play feed with toothed belt drive - toothed belt with 5 mm interval, width 25 mm
- Max. feed. 5 m/s
- Shaft slides WS 3, L 176 × W 130 mm
- Feed per turn: 70 mm
- Repeat accuracy less than or equal to ± 0.2 mm
- available in lengths up to 6,000 mm

Accessories can be found on pages 2-92

### Options:

- Special 100 mm raster lengths available to order, max. 6000 mm
- Also as direct drive with
  - stepper motor
  - Servomotor
- Overrun limit switch with lead (only integrated in conjunction with drive module)

### Ordering key

232 002 XXXX

Profile lengths (mm)  
696, 996, 1496, 1996,  
2496, 2996

(e. g. 696 mm = 070  
1496 mm = 150)

#### Drives/Slides, Trolley

8 = without motor, with shaft slides

9 = without motor, with trolley

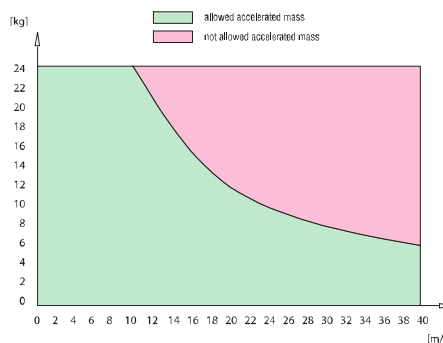
Option: up to 6000 mm

### Technical specification

Belt type.....	HTD 5M, width 25 mm
Slide weight.....	0,940 kg
Weight without drive module.....	1000 mm $\hat{=}$ 7.9 kg
specific weight of the toothed belt.....	0.09 kg/m
Roller carriage weight.....	2.03 kg
specific guide weight.....	0.472 kg/100 mm
Effective diameter of the synchronous disks.....	$\varnothing$ 22.28 mm
Moment of inertia of the synchronous disks.....	$5.58 \cdot 10^{-6} \text{ kgm}^2$
Feed per turn.....	70 mm

### Load diagram

Permitted accelerated weights relative to the belt strength.\*



\* with vertical construction, the acceleration due to gravity ( $g = 9.81 \text{ m/s}^2$ ) must be taken into account

### Linear guide rail LFS-8-5

Moment of inertia $I_x$ .....	137,48 cm <sup>4</sup>
Moment of inertia $I_y$ .....	27,98 cm <sup>4</sup>
Resistance torque $W_x$ .....	23,91 cm <sup>3</sup>
Resistance torque $W_y$ .....	13,09 cm <sup>3</sup>

Drive module with servo motor EC 60 L



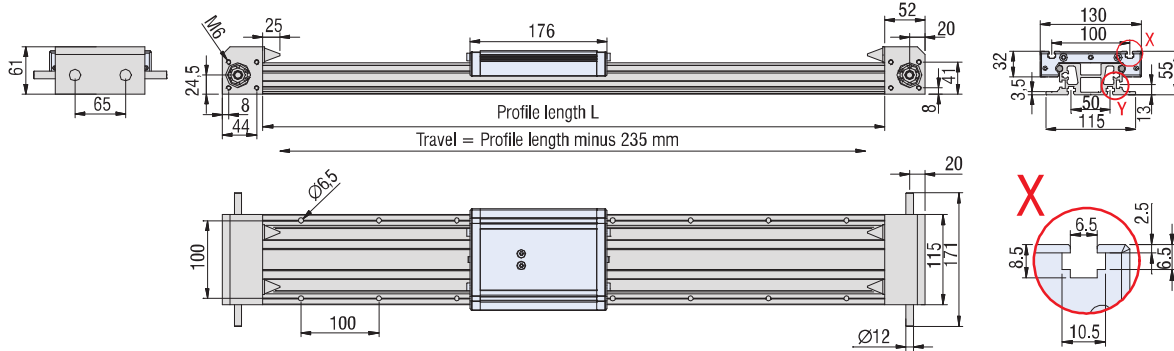
# Linear units

with toothed belt drive

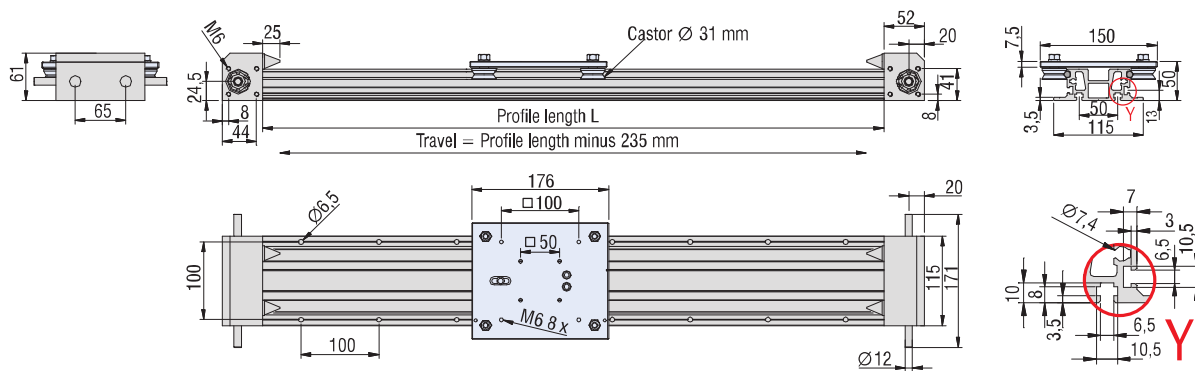
## LEZ 2

### Dimensioned drawings

without motor, with shaft slides



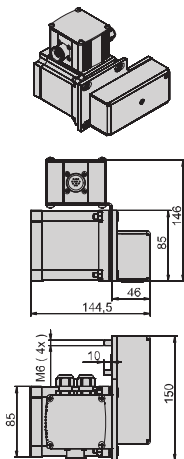
without motor, with trolley



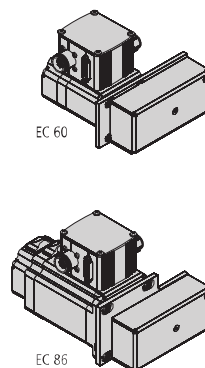
### Motor modules (Motor pin assignments are on Page 2-70)

Drive module with stepper motor  
MS-600 HT (reduction 2:1)  
Feed: 35 mm / turn

Part no.: **396086 3060**



Drive module with EC servomotors  
(Reduction 2:1)  
Feed: 35 mm / turn



Part number	Motor module	Length L
396 415 3260	EC 60S with brake	151.5 mm
396 415 3060	EC 60S without brake	198.5 mm
396 423 3060	EC 60L	186.5 mm
396 444 3070	EC 86S	177.5 mm
396 466 3070	EC 86L	202.5 mm

