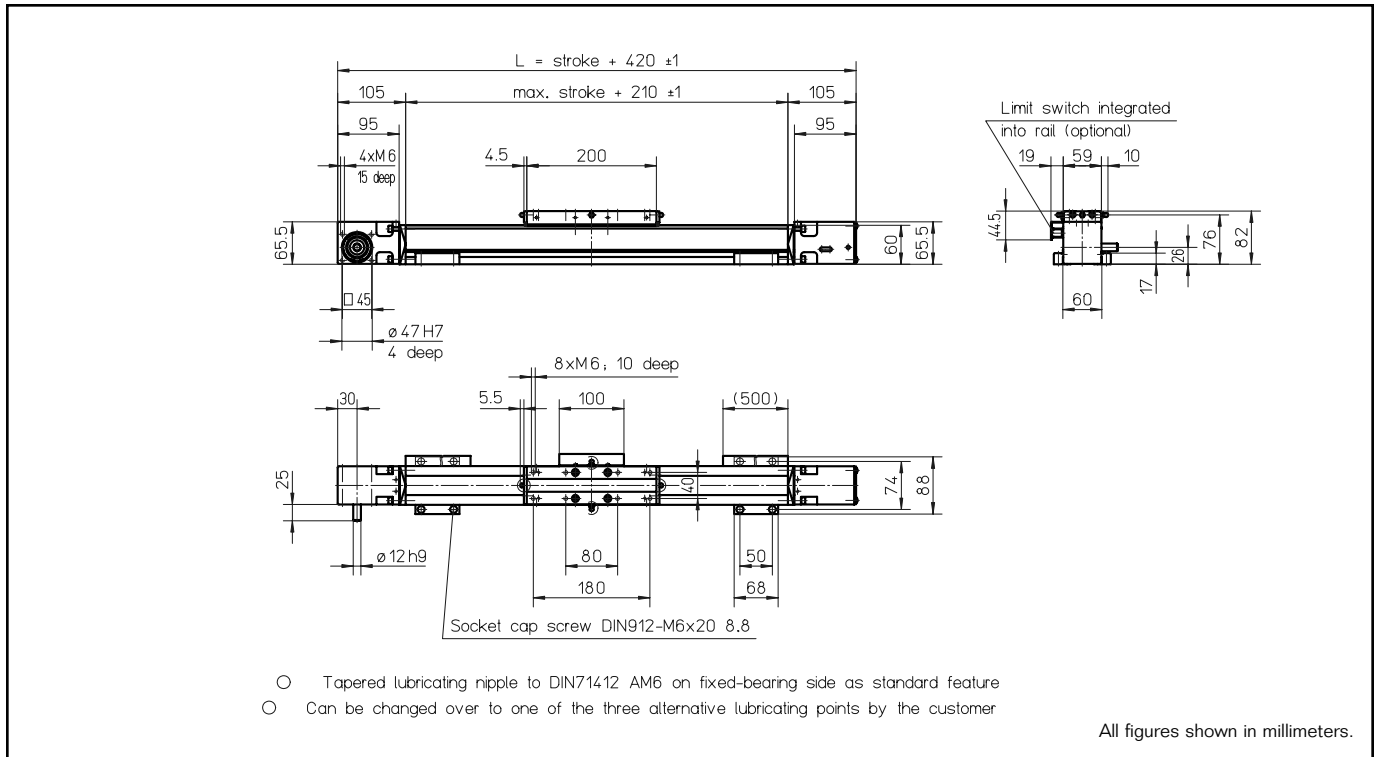


# WIESEL™ POWERLine® WM60 – 370 ZRT

with toothed belt drive and integrated linear short ball-bearing guide system



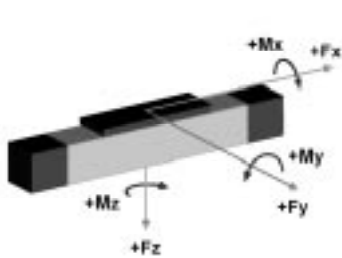
## Technical data

Linear speed: .....max. 2.5 m/s  
 Repeatability: .....± 0.05 mm  
 Acceleration: .....max. 20 m/s<sup>2</sup>  
 Drive element: .....Toothed belt 20ATL5  
 Diameter: .....38.20 mm  
 Stroke per revolution: .....120 mm  
 Stroke length: .....4000 mm  
 Length of power bridge: .....200 mm  
 Geometrical moment of inertia: .....ly 5.62 x 10<sup>5</sup> mm<sup>4</sup>  
 lz 5.94 x 10<sup>5</sup> mm<sup>4</sup>

## Weights

Basic unit with zero stroke: .....4.30 kg  
 100 mm stroke: .....0.45 kg  
 Power bridge with carriage: .....1.25 kg  
 Provided: .....4 pieces KAO mounting brackets

## Loads and load moments



Load	dynam. [N]
F <sub>x</sub> drive <sup>1)</sup>	850
F <sub>y</sub>	1400
+/- F <sub>z</sub>	1400
Load moment	dynam. [Nm]
M <sub>x</sub>	25
M <sub>y</sub> <sup>2)</sup>	50
M <sub>z</sub> <sup>2)</sup>	50

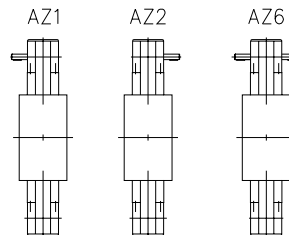
1) Depending on the speed, see respective chart.  
 2) Increase of the admissible values by the use of a long power bridge or additional free-sliding power bridge (pages 62 and 63).

## Idle torques [Nm]

Rotational speed [rpm]	M <sub>idle</sub> [Nm]
150	1.6
600	2.5
1250	3.0

## Execution of drive shafts

(Detailed description see pg 100)  
 Other executions on request.



## Unit conversions

**Length:**  
 1 m=1000 mm=39.37 inches  
 1 inch=25.4 mm

**Force:**  
 1 N=0.225 lbf  
 1 lbf=4.45 N

**Moment of Force:**  
 1 Nm=0.738 lb · ft=8.85 lb · inches  
 1 lb · ft=1.36 Nm

**Geometrical moment of inertia:**  
 1 m<sup>4</sup>=10<sup>12</sup> mm<sup>4</sup>=2.4025 x 10<sup>6</sup> in<sup>4</sup>

**Mass moment of inertia:**  
 1 kg · m<sup>2</sup>=10<sup>4</sup> kg · cm<sup>2</sup>=0.738 lb · ft · s<sup>2</sup>

**Mass:**  
 1 kg=2.2 lb

## F<sub>x</sub> over the linear speed

