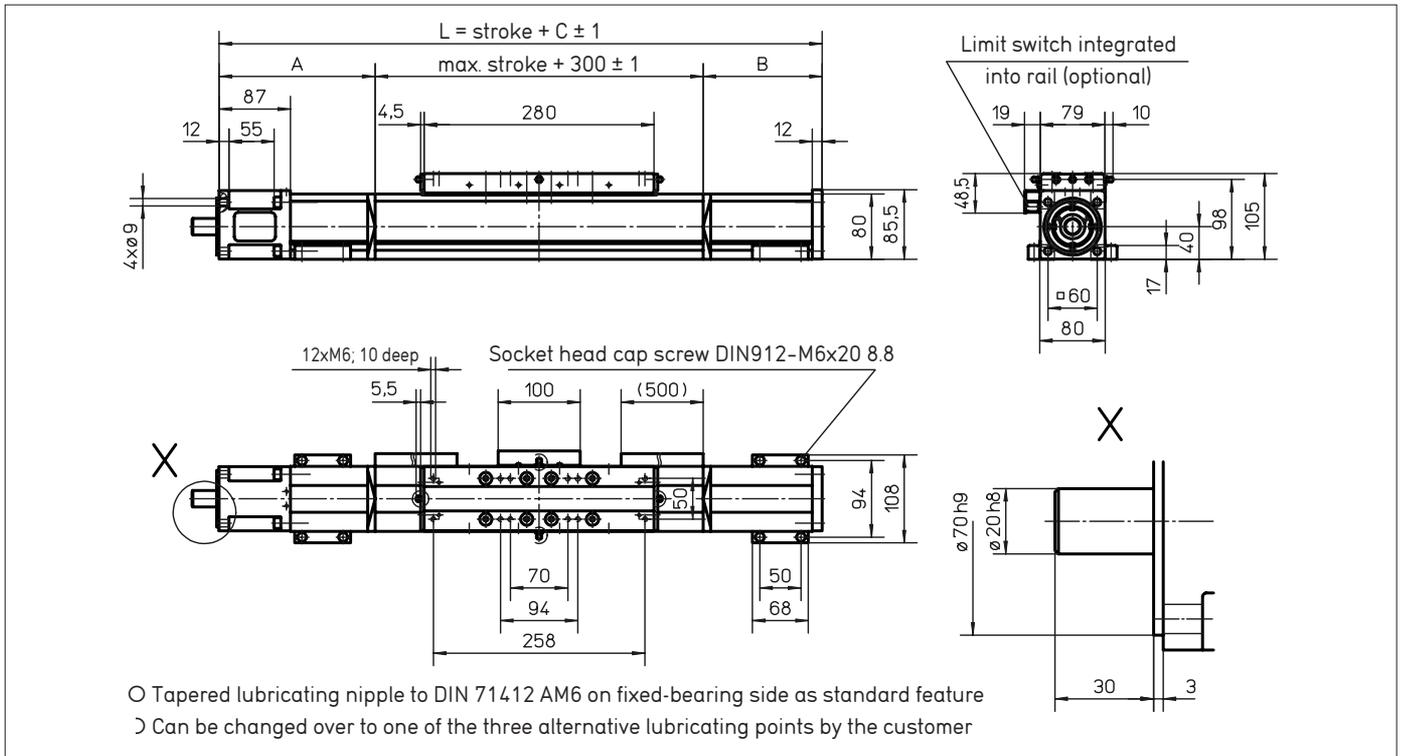


# WIESEL POWERLine® WM80

with ball screw drive and integrated linear ball-recirculating guide system



## Technical data

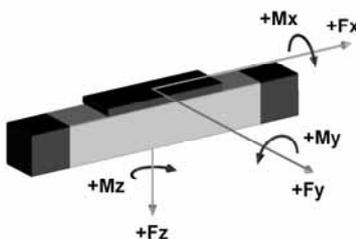
- Linear speed: \_\_\_\_\_ max. 2.5 m/s
- Repeatability: \_\_\_\_\_ ± 0.01 mm
- Acceleration: \_\_\_\_\_ max. 20 m/s<sup>2</sup>
- Rotational speed: \_\_\_\_\_ max. 3000 rpm
- Drive element: \_\_\_\_\_ Pretensioned ball screw
- Diameter: \_\_\_\_\_ 25 mm
- Lead: \_\_\_\_\_ 5, 10, 20, 50 mm
- Stroke length: \_\_\_\_\_ up to 11.000 mm  
with pitch 50 mm  
max. 5000 mm
- Power bridge: \_\_\_\_\_ 280 or 450 mm long  
see page 55
- Geometrical moment of inertia: \_\_\_\_\_ I<sub>y</sub> 1.9 · 10<sup>6</sup> mm<sup>4</sup>  
I<sub>z</sub> 1.9 · 10<sup>6</sup> mm<sup>4</sup>
- Weights  
Basic unit with zero stroke: \_\_\_\_\_ 11.57 kg  
100 mm stroke: \_\_\_\_\_ 1.08 kg  
Power bridge with carriage: \_\_\_\_\_ 4.26 kg
- Provided: \_\_\_\_\_ with 4 pieces KAO mounting brackets

## Idle torques [Nm]

Rotational speed [rpm]	Lead P [mm]			
	5	10	20	50
150	0.8	1.4	1.6	2.3
1500	1.4	1.9	2.0	2.8
3000	1.8	2.3	2.3	3.4

**Note:** For tube lengths of 6300 mm and over, the tubular profile is composed of two parts. The joint must be adequately supported. It may be possible to position the joint according to customer's specification. For screw leads > 20 mm, excess lengths cannot be implemented.

## Loads and load moments



Load	dynam. [N]
F <sub>x</sub> Drive	5000
F <sub>y</sub>	3000
± F <sub>z</sub>	3000
Load moment	dynam. [Nm]
M <sub>x</sub>	350
M <sub>y</sub> <sup>(1)</sup>	300
M <sub>z</sub> <sup>(1)</sup>	300

## Additional lengths as a function of the stroke

Stroke length [mm]	A [mm]	B [mm]	Additional length C [mm]
0-780	120	80	500
781-1535	170	125	595
1536-2375	190	145	635
2376-3205	215	170	685
3206-4045	235	190	725
4046-4885	255	210	765
4886-5000	280	235	815