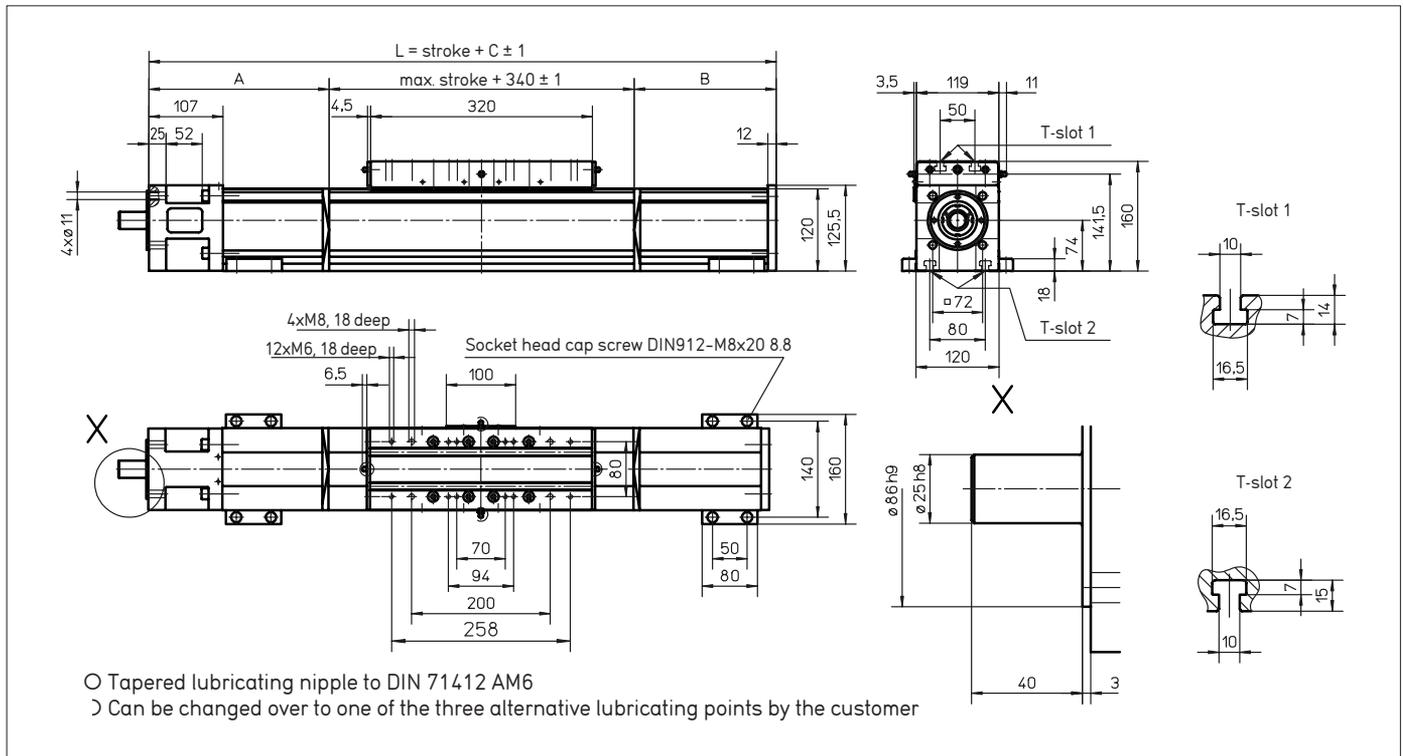


# WIESEL POWERLine® WM120

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



## Technical data

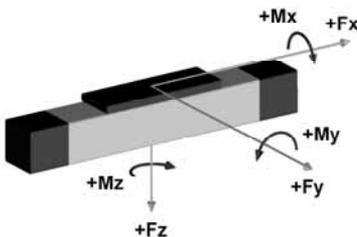
- Linear speed: \_\_\_\_\_ max. 2.0 m/s
- Repeatability: \_\_\_\_\_ ± 0.01 mm
- Acceleration: \_\_\_\_\_ max. 20 m/s<sup>2</sup>
- Rotational speed: \_\_\_\_\_ max. 3000 rpm
- Drive element: \_\_\_\_\_ Pretensioned ball screw  
 Diameter: \_\_\_\_\_ 32 mm  
 Lead: \_\_\_\_\_ 5, 10, 20, 40 mm
- Stroke length: \_\_\_\_\_ up to 11.000 mm  
 with pitch 40 mm  
 max. 5000 mm
- Power bridge: \_\_\_\_\_ 320 or 500 mm long  
 see page 55
- Geometrical moment of inertia:  $I_y 7.7 \cdot 10^6 \text{ mm}^4$   
 $I_z 9.4 \cdot 10^6 \text{ mm}^4$
- Weights  
 Basic unit with zero stroke: \_\_\_\_\_ 25.91 kg  
 100 mm stroke: \_\_\_\_\_ 1.93 kg  
 Power bridge with carriage: \_\_\_\_\_ 9.25 kg
- Provided: \_\_\_\_\_ with 4 pieces KAO mounting brackets

## Idle torques [Nm]

Rotational speed [rpm]	Lead P [mm]			
	5	10	20	40
150	1.2	2.1	1.8	2.4
1500	2.3	3.0	2.8	3.6
3000	2.8	3.8	3.5	4.0

**Note:** For tube lengths of 5400 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]
Fx drive	12000
Fx drive 3240	8000
Fy	6000
± Fz	6000
Load moment	dynam. [Nm]
Mx	500
My <sup>(1)</sup>	600
Mz <sup>(1)</sup>	600

## Additional lengths as a function of the stroke

Stroke length [mm]	A [mm]	B [mm]	Additional length C [mm]
0-890	155	100	595
891-1695	225	170	735
1696-2625	260	205	805
2626-3555	295	240	875
3556-4485	330	275	945
4486-5000	365	310	1015