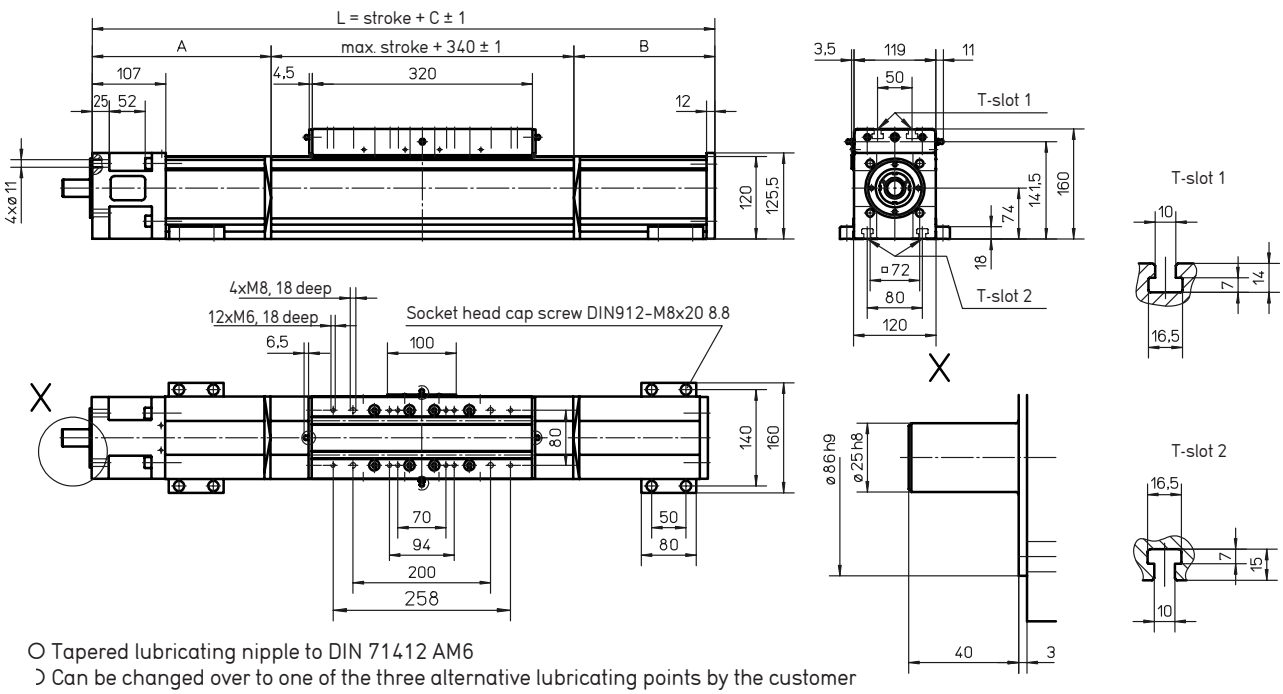
WIESEL *POWER*Line® WM120
with ball screw drive and integrated linear ball-recirculating guide system



○ Tapered lubricating nipple to DIN 71412 AM6
☽ Can be changed over to one of the three alternative lubricating points by the customer

Technical data

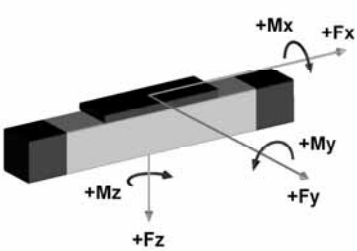
- Linear speed: max. 2.0 m/s
- Repeatability: ± 0.01 mm
- Acceleration: max. 20 m/s²
- Rotational speed: max. 3000 rpm
- Drive element: Pretensioned ball screw
  Diameter: 32 mm
  Lead: 5, 10, 20, 40 mm
- Stroke length: up to 11.000 mm
  with pitch 40 mm
  max. 5000 mm
- Power bridge: 320 or 500 mm long
  see page 55
- Geometrical moment of inertia: Iy 7.7 · 10^6 mm⁴
  Iz 9.4 · 10^6 mm⁴
- 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[1)]	600
Mz[1)]	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