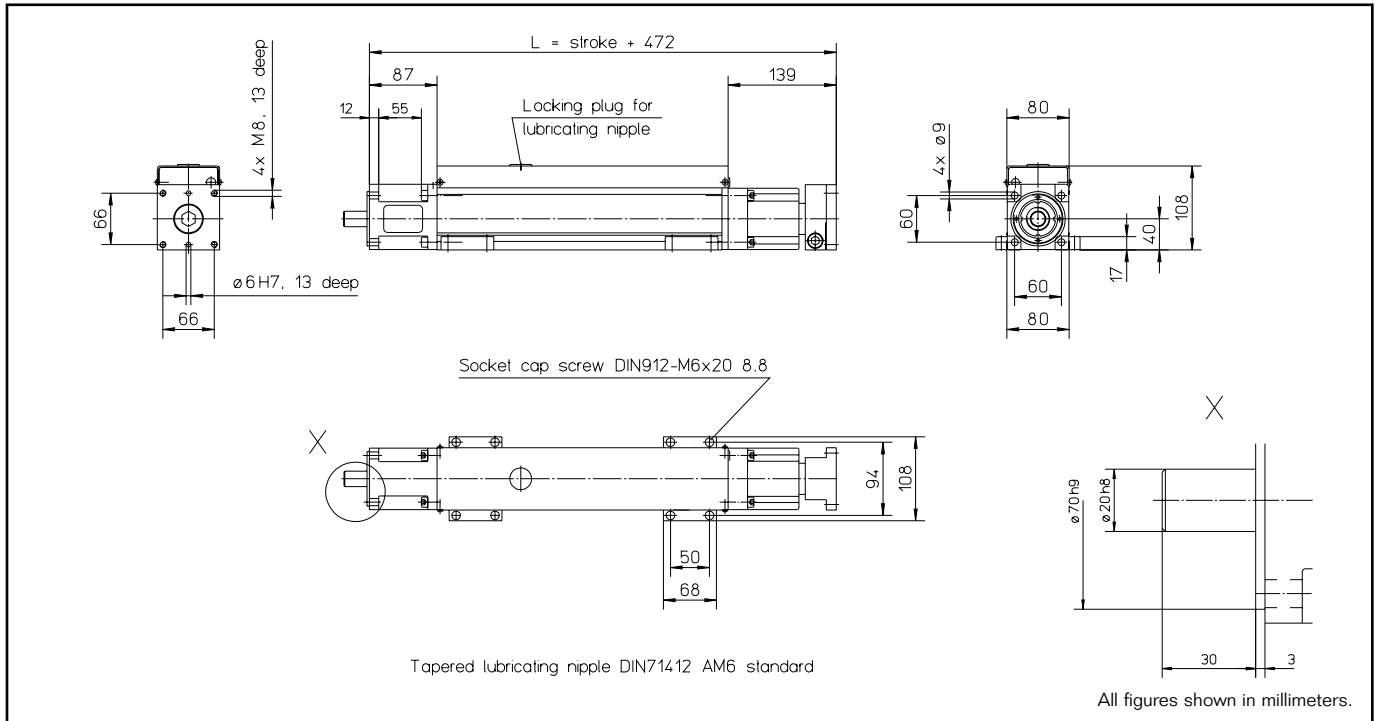


WIESEL™ VARIOLine™ WZ80

with ball screw drive and integrated linear ball bearing drive



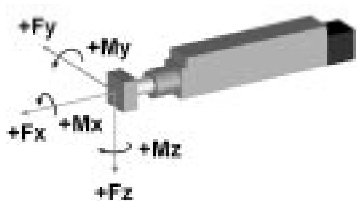
Technical data

- Linear speed:max. 1.5 m/s
- Repeatability:± 0.02 mm
- Acceleration:max. 20 m/s²
- Rotational speed:3000 rpm
- Drive element:ball screw with backlash free single nut
- Diameter:25 mm
- Lead:5, 10, 20, 50 mm
- Stroke length:max 500 mm
- Geometrical moment of inertia:ly 1.9 x 10⁶ mm⁴
lz 1.9 x 10⁶ mm⁴

Weights

- Basic unit with zero stroke:7.5 kg
- 100 mm stroke:1.35 kg
- Mass to be moved without stroke:3.0 kg
- Mass to be moved per 100 mm stroke:0.5 kg
- Provided:4 pieces KAO mounting brackets

Loads and load moments



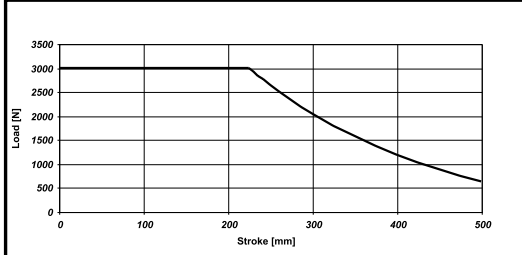
Load	dynam. [N]
Fx drive	3500
Fy	see diagram
±Fz	see diagram
Load moment	dynam. [Nm]
Mx	150

Unit conversions

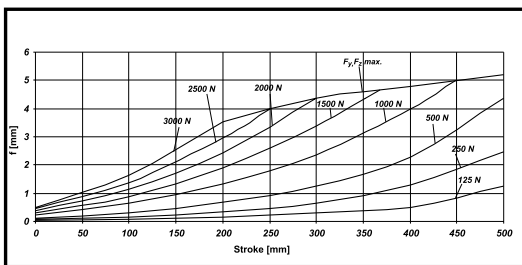
Geometrical moment of inertia:	1 m ⁴ =10 ¹² mm ⁴ =2.4025 x 10 ⁸ in ⁴
Mass moment of inertia:	1 kg · m ² =10 ⁴ kg · cm ² =0.738 lb · ft · s ²
Mass:	1 kg=2.2 lb

Idle torques [INm]

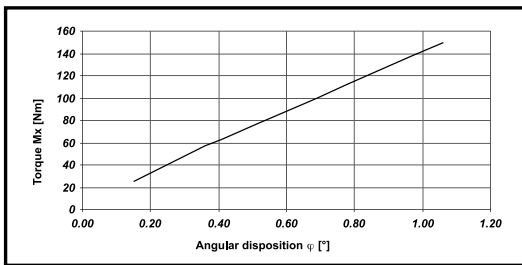
Rotational speed [rpm]	Lead P [mm]			
	5	10	20	50
150	0.6	1.1	1.3	1.8
1500	1.1	1.5	1.6	2.2
3000	1.4	1.8	1.8	2.7



Max side load Fy, Fz



Deflection due to Fy, Fz



Torsion