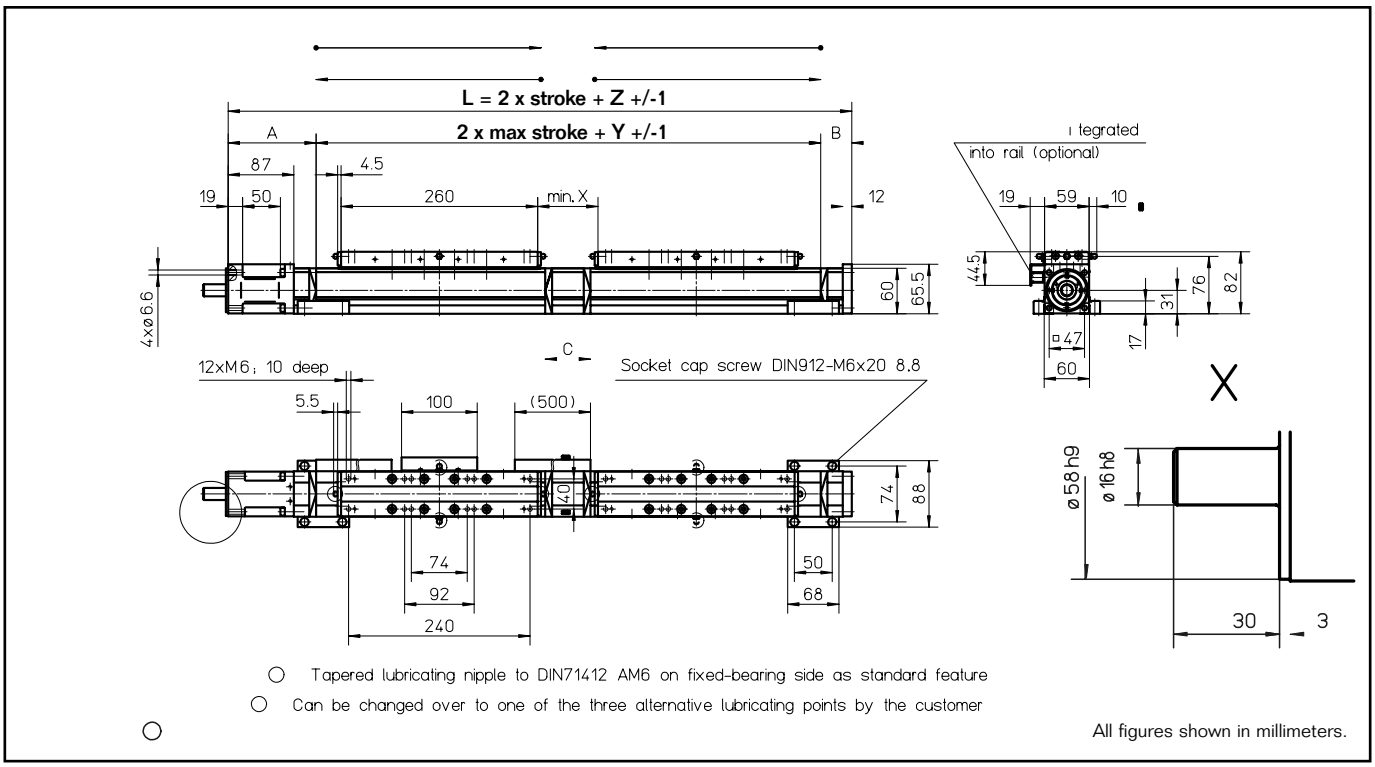
WIESEL™ *POWER*Line® WM60 – 500

with ball screw drive and integrated linear ball-bearing guide in right/left execution

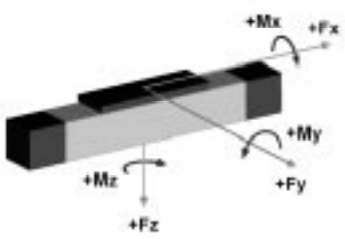


Technical data

Linear speed: . . . . . .max. 2.5 m/s
Repeatability: . . . . . .± 0.01 mm
Acceleration: . . . . . .max. 20 m/s²
Rotational speed: . . . . . .max. 3000 rpm
Drive element: . . . . . .Pretensioned ball screw drive
Diameter: . . . . . .20 mm
Lead: . . . . . .5 mm
Stroke length: . . . . . .up to 10340 mm referred to both power bridges. max. 5000 mm
Power bridge: . . . . . .260 or 450 mm long see page 62
Geometrical moment of inertia: . . .ly 5.8 x 10^5 mm⁴
lz 5.9 x 10^5 mm⁴

Weights
Basic unit with zero stroke: . . . . .10.33 kg
100 mm stroke: . . . . . .0.64 kg
Power bridge with carriage: . . . . .1.99 kg
Provided: . . . . . .4 pieces KAO mounting brackets

Loads and load moments



Load	dynam. [N]
Fx drive	4000
Fy	2000
± Fz	2000

Load moment	dynam. [Nm]
Mx	100
My	200
Mz	200

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 $m^4=10^{12}$ $mm^4=2.4025 \times 10^6$ 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 [Nm]

Rotational speed [rpm]	Lead P [mm] 5
150	1.2
1500	2.2
3000	3.2

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 wishes. For screw leads > 20 mm, excess lengths cannot be implemented.

Additional lengths as a function of the stroke

Stroke length [mm]	A [mm]	B [mm]	C [mm]	X	Y	Z
0–1390	115	65	60	80	620	800
1391-2670	165	115	210	230	770	1050
2671-4150	185	135	250	270	810	1130
4151-5560	210	160	300	320	860	1230