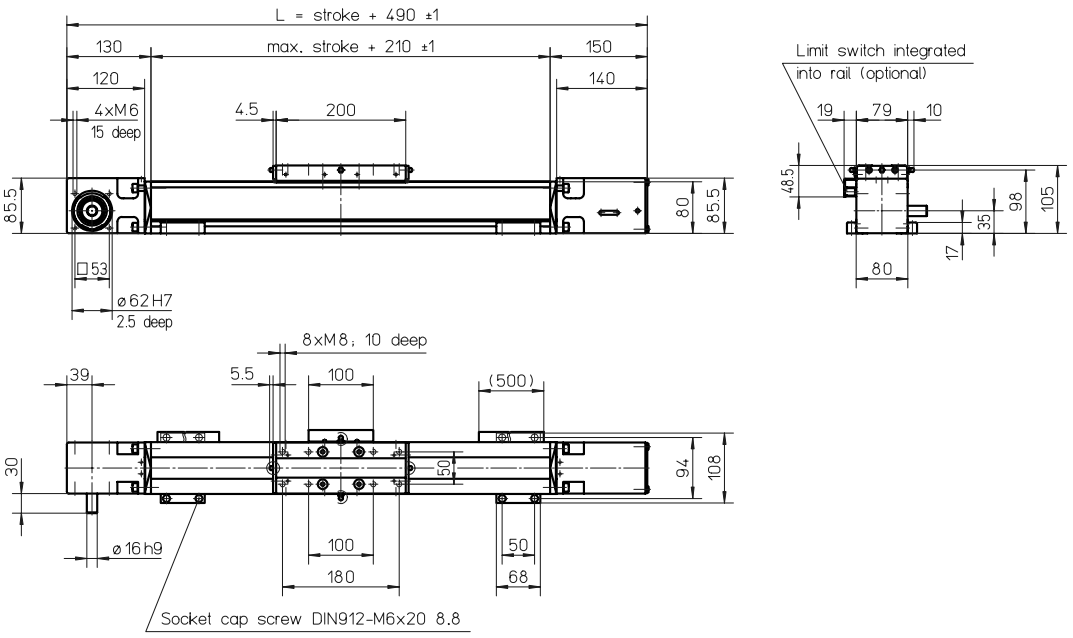
WIESEL™ *POWER*Line® WM80 – 370 ZRT

with toothed belt drive and integrated linear short ball-bearing guide system



○ Tapered lubricating nipple to DIN71412 AM6 on fixed-bearing side as standard feature
○ Can be changed over to one of the three alternative lubricating points by the customer

All figures shown in millimeters.

Technical data

Linear speed: . . . . . .max. 2.5 m/s
Repeatability: . . . . . .± 0.05 mm
Acceleration: . . . . . .max. 20 m/s²
Drive element: . . . . . .Toothed belt 25AT10
Diameter: . . . . . .54.11 mm
Stroke per revolution: . . . . . .170 mm
Stroke length: . . . . . .5500 mm
Length of power bridge: . . . . . .200 mm
Geometrical moment of inertia: . . .ly 1.89 x 10^6 mm⁴
lz 1.97 x 10^6 mm⁴

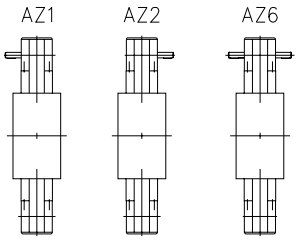
Weights
Basic unit with zero stroke: . . . . .9.20 kg
100 mm stroke: . . . . . .0.80 kg
Power bridge with carriage: . . . . .2.10 kg
Provided: . . . . . .4 pieces KAO mounting brackets

Idle torques [Nm]

Rotational speed [rpm]	M_{idle} [Nm]
150	4.0
450	5.4
885	6.2

Execution of drive shafts

(Detailed description see pg 100)
Other executions on request.



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

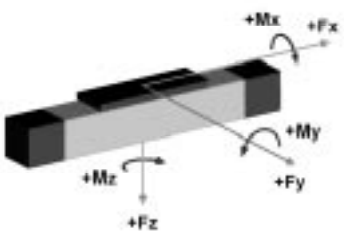
Moment of Force:
1 Nm=0.738 lb • ft=8.85 lb • inches
1 lb • ft=1.36 Nm

Geometrical moment of inertia:
1 m⁴=10^{12} mm⁴=2.4025 x 10^6 in⁴

Mass moment of inertia:
1 kg • m²=10^4 kg • cm²=0.738 lb • ft • s²

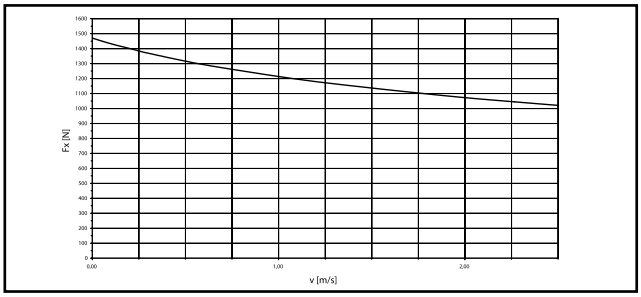
Mass:
1 kg=2.2 lb

Loads and load moments



Load	dynam. [N]
Fx drive[1]	1470
Fy	2100
+/- Fz	2100
Load moment	**dynam. [Nm]**
Mx	68
My[2]	135
Mz[2]	135

F_x over the linear speed



1) Depending on the speed, see respective chart.
2) Increase of the admissible values by the use of a long power bridge or additional free-sliding power bridge (pages 62 and 63).