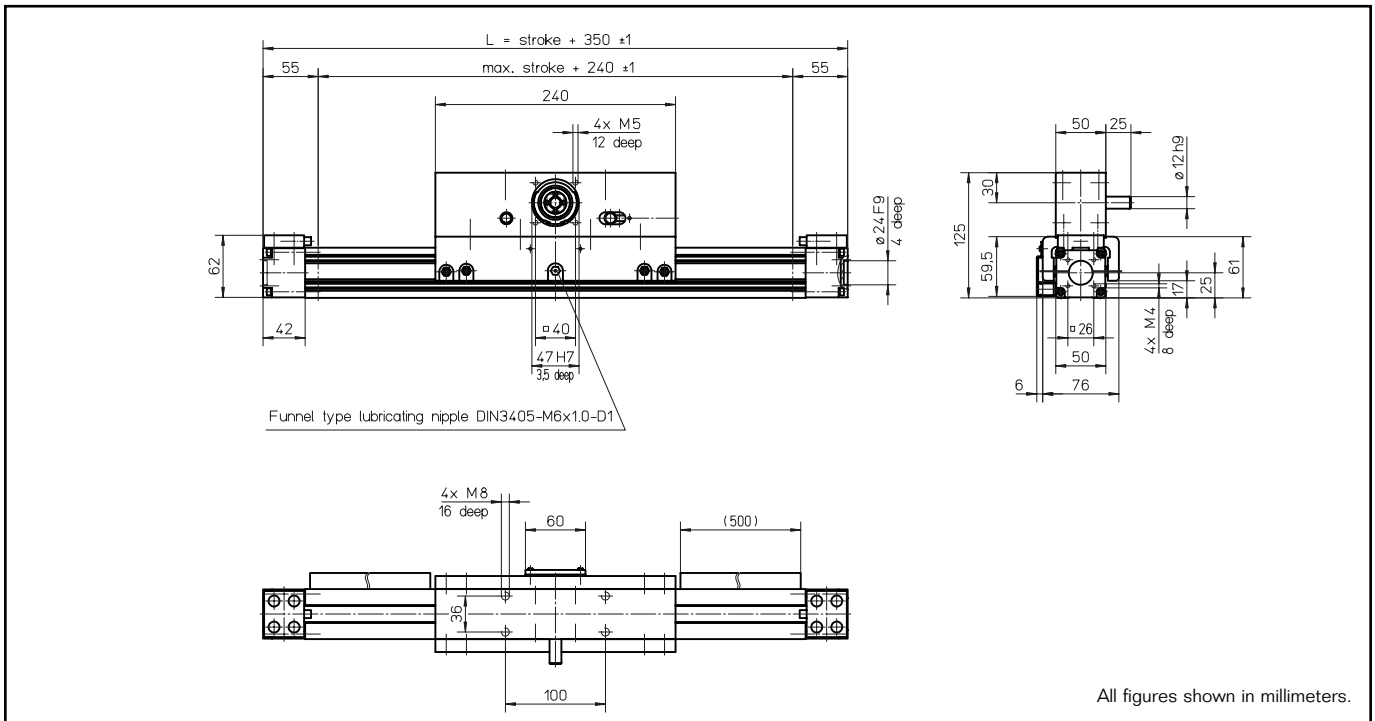


WIESEL™ SPEEDLine® WHZ50

with roller guideway and AT toothed belt



All figures shown in millimeters.

Note: Mounted wipers on request. The use of a long power bridge increases the total length.

Technical data

Linear speed:max. 6.5 m/s
 Repeatability:± 0.05 mm
 Acceleration:max. 40 m/s²
 Drive element:Toothed belt 16ATL5
 Diameter:38.20 mm
 Stroke per revolution:120 mm
 Stroke length:up to 1500 mm
 Length of power bridge:240 or 400 mm
 see page 28

Geometrical moment of inertia: ...ly 3.30 x 10⁵ mm⁴
 lz 2.65 x 10⁵ mm⁴

Weights

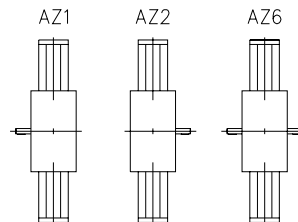
Basic unit with zero stroke:4.50 kg
 100 mm stroke:0.42 kg
 Power bridge with carriage:2.90 kg

Idle torques [Nm]

Rotational speed [rpm]	M _{idle} [Nm]
150	1.7
1500	2.4
3250	3.8

Execution of drive shafts

(Detailed description see pg 99)
 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

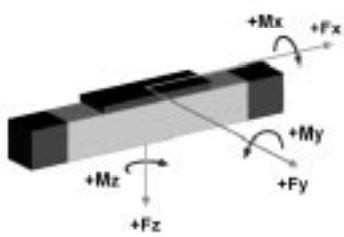
Moment of Force:
 1 Nm=0.738 lb · ft=8.85 lb · inches
 1 lb · ft=1.36 Nm

Geometrical moment of inertia:
 1 m⁴=10¹² mm⁴=2.4025 x 10⁶ in⁴

Mass moment of inertia:
 1 kg · m²=10⁴ kg · cm²=0.738 lb · ft · s²

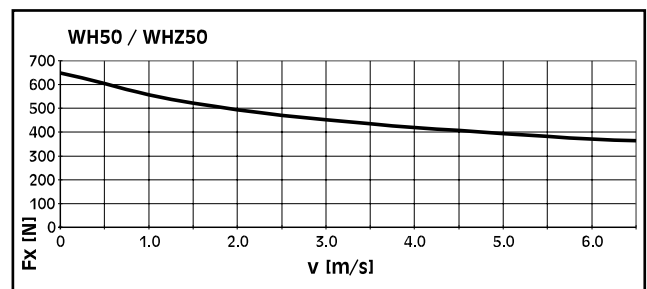
Mass:
 1 kg=2.2 lb

Loads and load moments



Load	dynam. [N]
Fx drive ¹⁾	max. 670
Fy	415
±Fz	730
Load moment	dynam. [Nm]
Mx	16
My ²⁾	87
Mz ²⁾	50

Fx depending on 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 28 and 29).