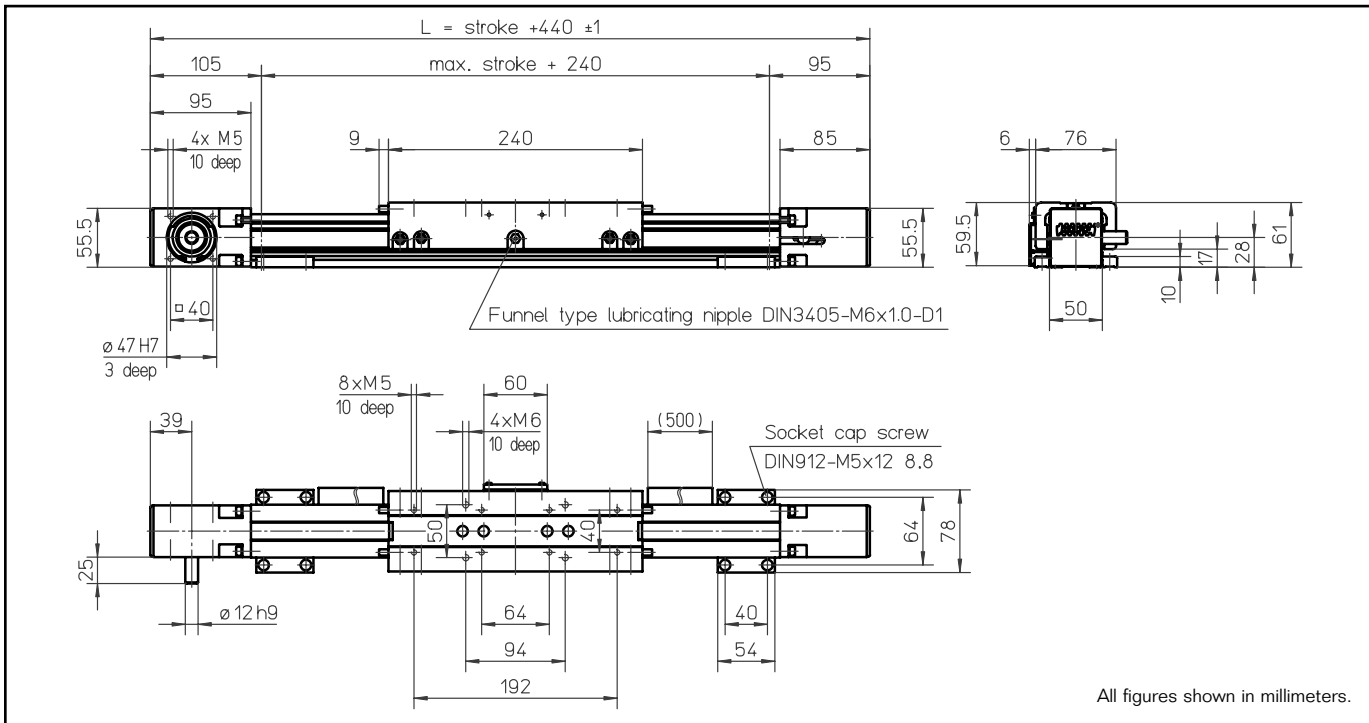


WIESEL™ SPEEDLine® WH50

with roller guideway and AT toothed belt



All figures shown in millimeters.

Note: In the section of the rail for the initiators the WIESEL™ cannot be fixed by means of KAO mounting brackets. Mounting kit for the lateral assembly of the initiators at the sides of the axis on request. Mounted wipers on request. The use of a long power bridge increases the total length.

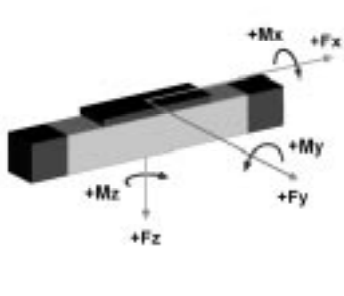
Technical data

- 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 3000 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:3.50 kg
- 100 mm stroke:0.44 kg
- Power bridge with rollers:0.90 kg
- Provided:4 pieces KAO mounting brackets

Loads and load moments



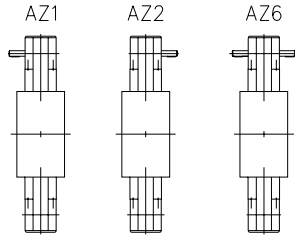
Load	dynam. [N]
Fx drive ¹⁾	max. 670
Fy	415
±Fz	730
Load moment	dynam. [Nm]
Mx	16
My ²⁾	87
Mz ²⁾	50

Idle torques [Nm]

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

Execution of drive shafts

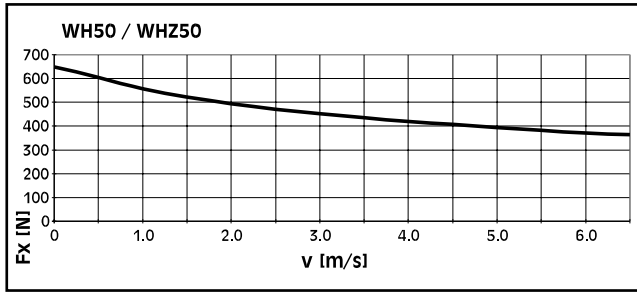
(Detailed description see pg 99)
Other executions on request.



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

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).