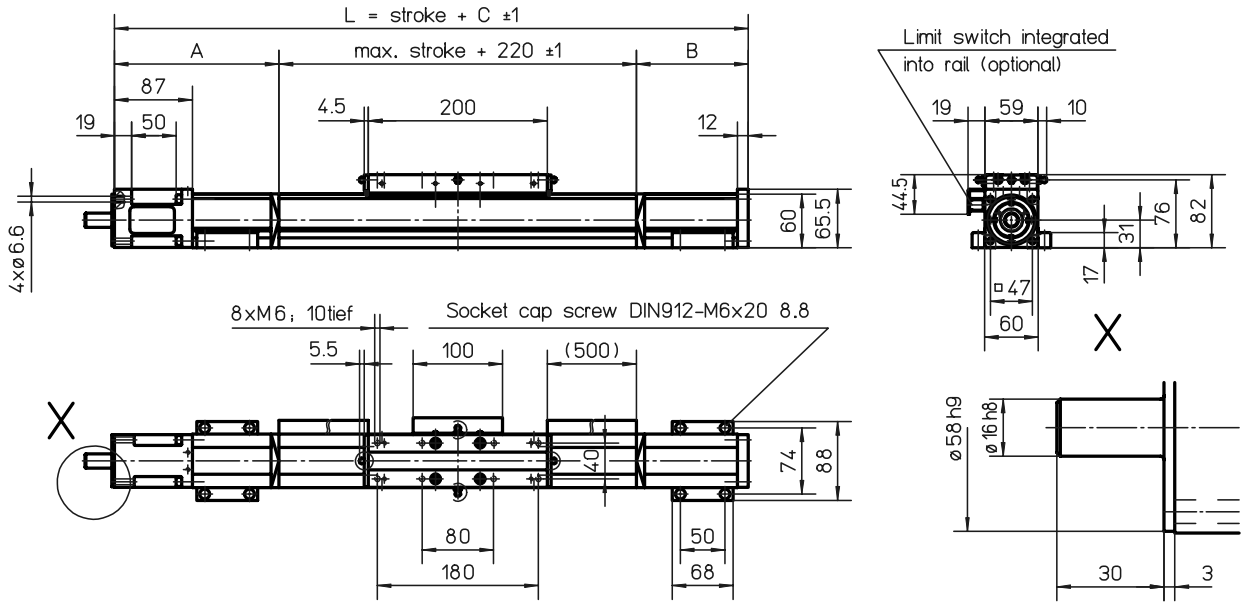
WIESEL™ *POWER*Line® WM60 – 370

with ball screw drive and integrated linear ball-bearing guide



○ 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: . . . . . .± 0.01 mm
Acceleration: . . . . . .max. 10 m/s²
Rotational speed: . . . . . .max. 3000 rpm
Drive element: . . . . . .Pretensioned ball screw drive with single nut, no backlash
Diameter: . . . . . .20 mm
Lead: . . . . . .5, 20, 50 mm
Stroke length: . . . . . .up to 5000 mm
Power bridge: . . . . . .200 mm long
Geometrical moment of inertia: . . .ly 5.8 x 10^5 mm⁴
lz 5.9 x 10^5 mm⁴

Weights
Basic unit with zero stroke: . . . . .3.8 kg
100 mm stroke: . . . . . .0.65 kg
Power bridge with carriage: . . . . .1.00 kg
Provided: . . . . . .4 pieces KAO mounting brackets

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

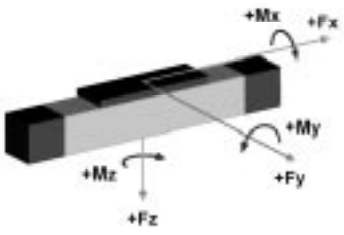
Mass moment of inertia:
1 kg • $m^2=10^4$ kg • $cm^2=0.738$ lb • ft • s^2

Mass:
1 kg=2.2 lb

Idle torques [Nm]

Rotational speed [rpm]	Lead P [mm] 5	20	50
150	0.5	0.9	1.2
1500	0.9	1.4	1.8
3000	1.3	1.6	2

Loads and load moments



Load	dynam. [N]
Fx drive	2800
Fy	1400
± Fz	1400

Load moment	dynam. [Nm]
Mx	50
My	100
Mz	100

Additional lengths as a function of the stroke

Stroke length [mm]	A [mm]	B [mm]	Additional length C [mm]
0–580	95	20	335
581-1140	110	60	390
1141-1805	130	80	430
1806-2460	155	105	480
2461-3125	175	125	520
3126-3780	200	150	570
3781-4445	220	170	610
4446-5000	240	190	650