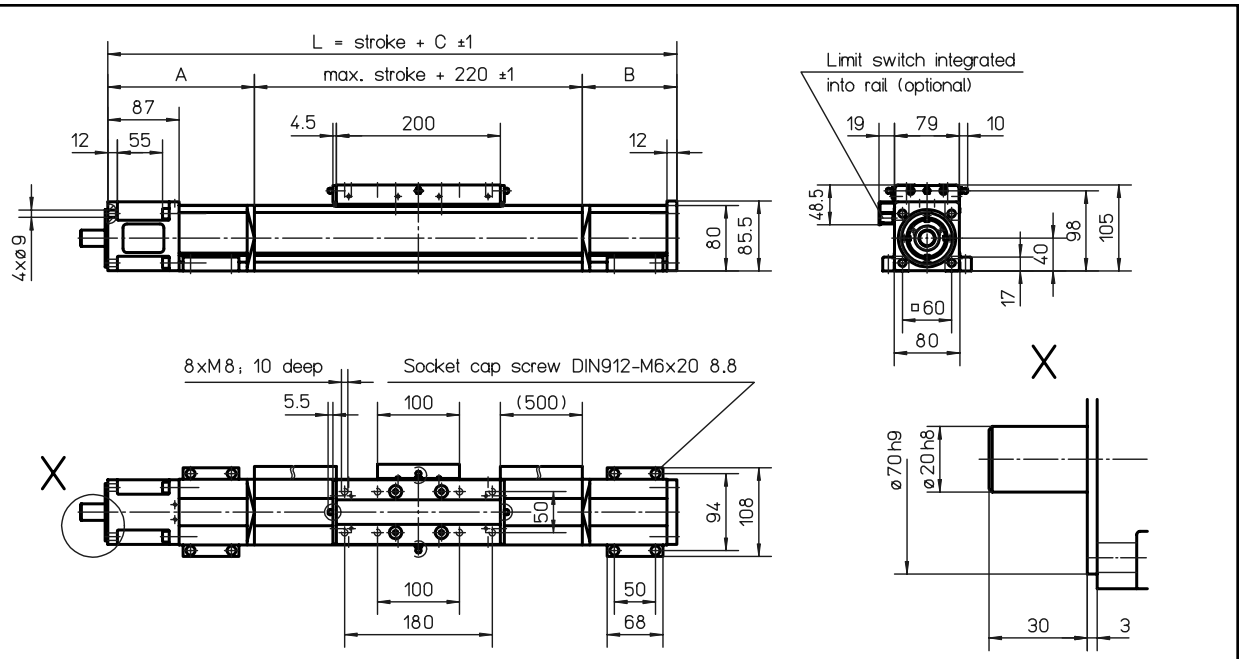
WIESEL™ *DYNA*Line® WV80

with ball screw drive



○ 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. 20 m/s²
Rotational speed: . . . . . .max. 3000 rpm
Drive element: . . . . . .Pretensioned ball screw drive
Diameter: . . . . . .25 mm
Lead: . . . . . .5, 10, 20, 50 mm
Stroke length: . . . . . .up to 11000 mm
with lead 50 mm
max. 5000 mm
Power bridge: . . . . . .200 mm long
Geometrical moment of inertia: . . .Iy 1.9 x 10^6 mm^4
Iz 1.9 x 10^6 mm^4

Weights
Basic unit with zero stroke: . . . . .7.95 kg
100 mm stroke: . . . . . .0.99 kg
Power bridge with carriage: . . . . .2.25 kg
Provided: . . . . . .4 pieces KAO mounting brackets

Feed force

Maximum feed force Fx:
5000 N

Note: All loads and load moments must be absorbed by external guides

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 x 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	10	20	50
150	1.0	1.0	1.1	1.2
1500	1.7	1.8	1.9	2.0
3000	2.2	2.3	2.4	2.6

Additional lengths as a function of the stroke

Stroke length [mm]	A [mm]	B [mm]	Additional length C [mm]
0–775	125	50	395
776-1670	145	95	460
1671-2505	170	115	505
2506-3340	190	140	550
3341-4175	210	160	590
4176-5015	235	180	635

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.