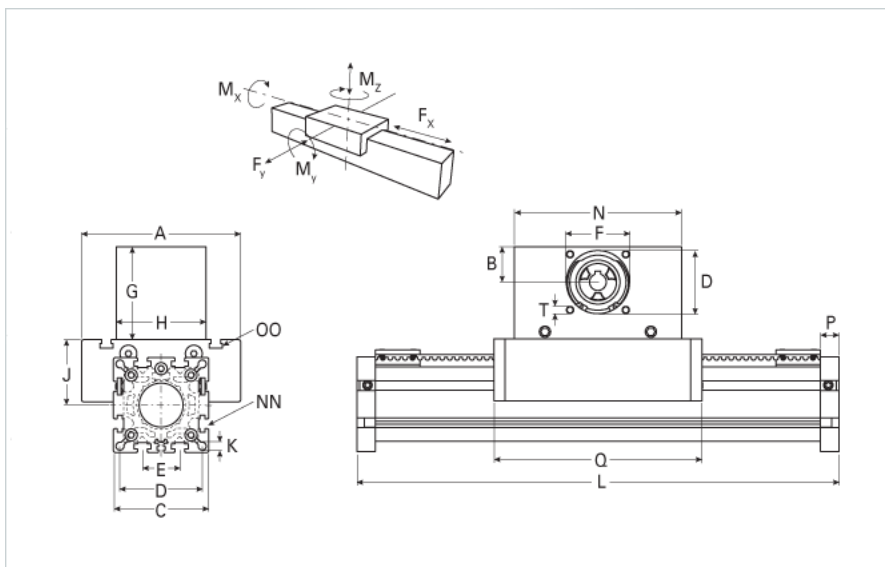
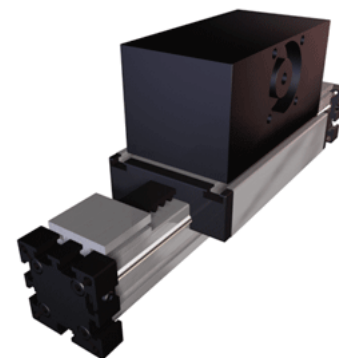


ELSZ 60S

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Details	
Size	60S
Belt	5M25
mm/Rev	130
Number of Teeth	26
Dimensions	
Basic Length L [mm]	305
A [mm]	170
B [mm]	30
C [mm]	82
D [mm]	47
E [mm]	30
F [mm]	42
G [mm]	80
H [mm]	80
I [mm]	-
J [mm]	53
K [mm]	8.5
MM	-
N [mm]	130
NN	M8
O [mm]	69
OO	M8
P [mm]	16
Q [mm]	194
T	M6
V [mm]	-
Shaft Diameter and Length [mm]	14 x 35
Key	5x5x28
Speed	
Speed Maximum [m/s]	7
Forces and Torques	
No-load torque [Nm]	0.9
Tensile force 0.2 sec [N]	1000
Tensile force permanent [N]	900
Fx dynamic [N]	800
Fy dynamic [N]	3100
Fz dynamic [N]	1600
Mx dynamic [Nm]	65
My dynamic [Nm]	140
Mz dynamic [Nm]	170
Fx static [N]	894
Fy static [N]	4100
Fz static [N]	2160
Mx static [Nm]	88
My static [Nm]	190
Mz static [Nm]	230

Geometrical moments of inertia of aluminum profile

Elastic modulus [N/mm ²]	70000
I _x [mm ⁴]	679000
I _y [mm ⁴]	697000

Weight

Additional Weight per 100 mm [kg]	0.62
Basic Weight [kg]	6.1

Values for Calculating Inertias

Pulley Material - Drive Pulley (x1)	Steel
Pulley Material - Idler Pulleys (x2)	Plastic
Pulley Diameter [mm]	41.38
Effective Pulley Width [mm]	80
Belt Weight [kg/m]	0.123
Standard Carriage Weight [kg]	2.72
No-load torque [Nm]	0.9
Friction Coefficient	0.01