Product Specification Sheet

ELSD 60

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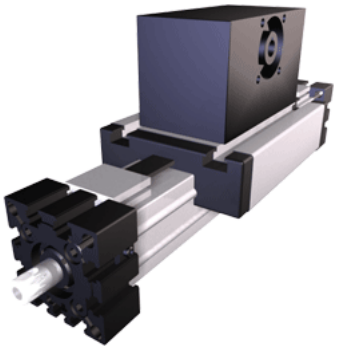

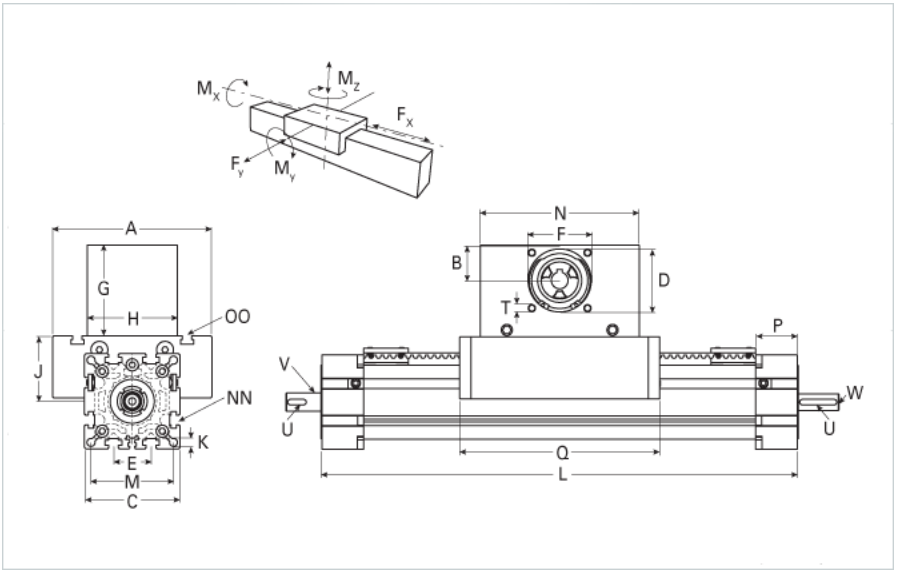

Details	
Size	60
Belt	5M25
mm/Rev	130
Number of Teeth	26
Dimensions	
Basic Length L [mm]	320
A [mm]	144
B [mm]	30
C [mm]	82
D [mm]	47
E [mm]	30
F [mm]	42
G [mm]	80
H [mm]	80
I [mm]	-
J [mm]	49
K [mm]	8.5
M [mm]	69
MM	-
N [mm]	130
NN	M8
OO	M8
P [mm]	35
Q [mm]	168
T	M6
X [mm]	-
V (Z Drive End) [mm]	14 x 25
U (Z Drive End) [mm]	5x5x20
V (Z Load End) [mm]	17 x 25
U (Z Load End) [mm]	5x5x20
W (Z Load End) [mm]	M8x20
Shaft Diameter and Length [mm]	14 x 35
Key	5x5x28
Speed	
Speed Maximum [m/s]	5
Forces and Torques	
No-load torque Stiction torque Mr [Nm]	0.1
No-load torque [Nm]	0.9
Tensile force 0.2 sec [N]	1000
Tensile force permanent [N]	900
Fd [N]	150
Mr [Nm]	10
Fx dynamic [N]	800
Fy dynamic [N]	2000
Fz dynamic [N]	1100
Mx dynamic [Nm]	43
My dynamic [Nm]	70

Mz dynamic [Nm]	100
Fx static [N]	894
Fy static [N]	3000
Fz static [N]	1700
Mx static [Nm]	67
My static [Nm]	90
Mz static [Nm]	120
Geometrical moments of inertia of aluminum profile	
Elastic modulus [N/mm²]	70000
Ix [mm⁴]	679000
Iy [mm⁴]	697000
Weight	
Additional Weight per 100 mm [kg]	0.87
Basic Weight [kg]	5.9
Values for Calulating Inertias	
Pulley Material - Drive Pulley (x1)	Steel
Pulley Material - Idler Pulleys (x2)	Aluminum
Pulley Diameter [mm]	41.38
Effective Pulley Width [mm]	80
Belt Weight [kg/m]	0.123
Standard Carriage Weight [kg]	1.58
No-load torque [Nm]	0.9
Friction Coefficient	0.01