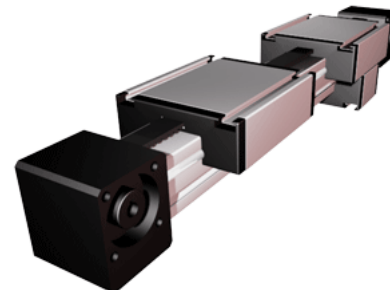
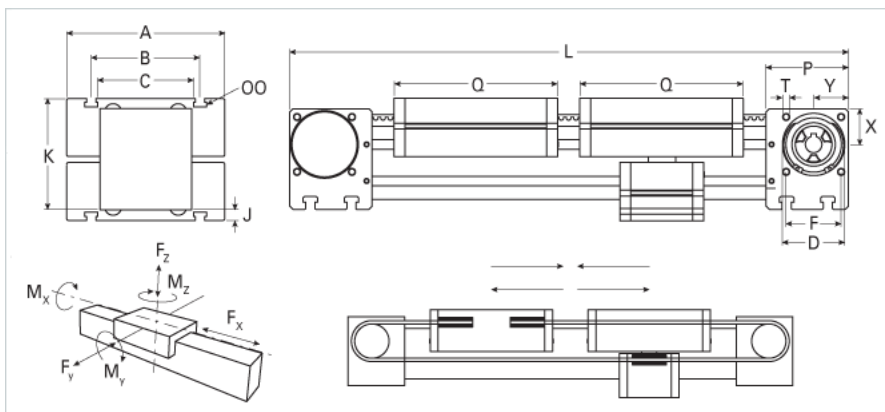


ELZ 30 Dual Carriage

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Details

Size	30
Belt	3M12
mm/Rev	75
Number of Teeth	25

Dimensions

Basic Length L [mm]	250
A [mm]	70
B [mm]	56
C [mm]	42
D [mm]	28
F [mm]	25
G [mm]	-
H [mm]	-
J [mm]	5
K [mm]	52
MM	-
OO	M6
P [mm]	36
Q [mm]	82
T	M4
X [mm]	16
Y [mm]	16
Shaft Diameter and Length [mm]	6 x 15
Key	2x2x12

Speed

Speed Maximum [m/s]	2
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Forces and Torques

No-load torque [Nm]	0.2
Tensile force 0.2 sec [N]	280
Tensile force permanent [N]	200
Fx dynamic [N]	180
Fy dynamic [N]	60
Fz dynamic [N]	60
Mx dynamic [Nm]	5
My dynamic [Nm]	6
Mz dynamic [Nm]	7
Fx static [N]	200
Fy static [N]	90
Fz static [N]	90
Mx static [Nm]	10
My static [Nm]	13
Mz static [Nm]	14

Geometrical moments of inertia of aluminum profile

Elastic modulus [N/mm ²]	70000
Ix [mm ⁴]	40900
Iy [mm ⁴]	40000

Weight

Additional Weight per 100 mm [kg]	0.13
Basic Weight [kg]	1.2

Values for Calculating Inertias

Pulley Material	Steel
Pulley Diameter [mm]	23.87
Effective Pulley Width [mm]	42

Belt Weight [kg/m]	0.037
Standard Carriage Weight [kg]	0.18
No-load torque [Nm]	0.2
Friction Coefficient	0.01