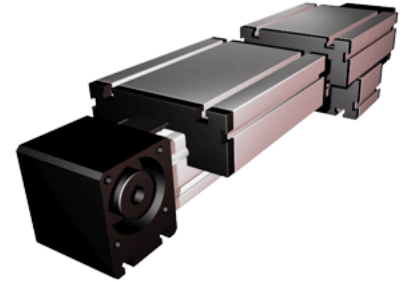
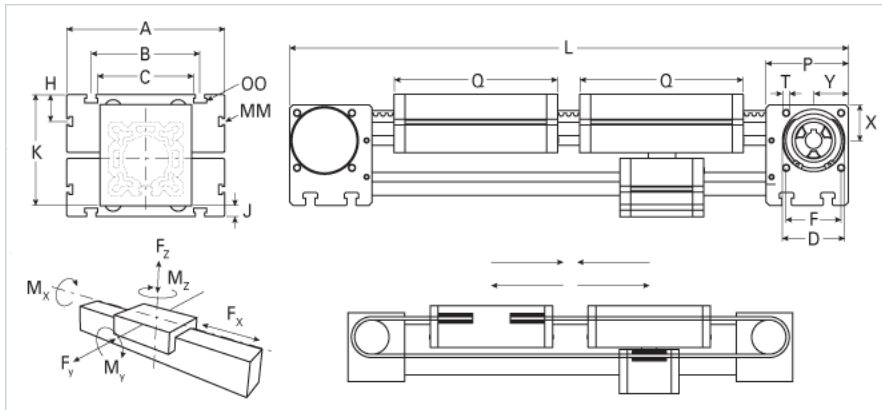


ELZ 100 Dual Carriage

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Details

Size	100
Belt	8M50
mm/Rev	256
Number of Teeth	32

Dimensions

Basic Length L [mm]	830
A [mm]	230
B [mm]	155
C [mm]	130
D [mm]	90
F [mm]	80
G [mm]	-
H [mm]	29
J [mm]	24
K [mm]	178
MM	M10
OO	M10
P [mm]	110
Q [mm]	300
T	M10
X [mm]	50
Y [mm]	50
Shaft Diameter and Length [mm]	22 x 45
Key	6x6x40

Speed

Speed Maximum [m/s]	8
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Forces and Torques

No-load torque [Nm]	1.2
Tensile force 0.2 sec [N]	2090
Tensile force permanent [N]	1900
Fx dynamic [N]	1800
Fy dynamic [N]	6500
Fz dynamic [N]	2200
Mx dynamic [Nm]	230
My dynamic [Nm]	270
Mz dynamic [Nm]	500
Fx static [N]	4000
Fy static [N]	8000
Fz static [N]	3600
Mx static [Nm]	300
My static [Nm]	400
Mz static [Nm]	750

Geometrical moments of inertia of aluminum profile

Elastic modulus [N/mm ²]	70000
Ix [mm ⁴]	4440000
Iy [mm ⁴]	4480000

Weight

Additional Weight per 100 mm [kg]	1.60
Basic Weight [kg]	34.0

Values for Calculating Inertias

Pulley Material	Aluminum
Pulley Diameter [mm]	81.49

Effective Pulley Width [mm]	130
Belt Weight [kg/m]	0.355
Standard Carriage Weight [kg]	6.55
No-load torque [Nm]	1.4
Friction Coefficient	0.01