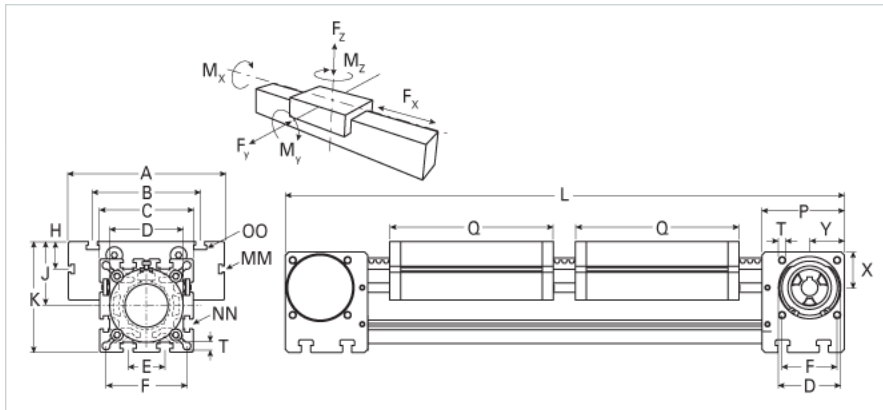
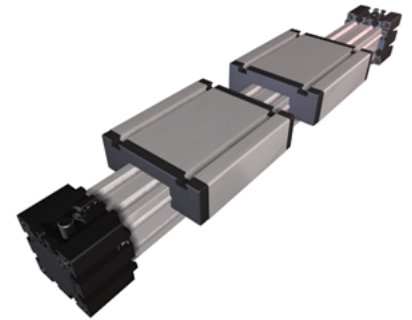


## ELVZ 100 Dual Carriage

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### Details

Size	100
Belt	8M48
mm/Rev	144
Number of Teeth	18
Pully Diameter [mm]	45.8

### Dimensions

Basic Length L [mm]	830
A [mm]	230
B [mm]	155
C [mm]	130
D [mm]	110x1
E [mm]	50
F [mm]	112
G [mm]	-
H [mm]	30
J [mm]	89
K [mm]	154
MM	M10
NN	M10
OO	M10
P [mm]	110
Q [mm]	300
T [mm]	10.5
U [mm]	45
V [mm]	68
W [mm]	19
X [mm]	50
Y [mm]	64
Z	M10
Shaft Diameter and Length [mm]	22 x 45
Key	6x6x40

### Speed

Speed Maximum [m/s]	5
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### Forces and Torques

No-load torque [Nm]	1.2
Tensile force 0.2 sec [N]	3400
Tensile force permanent [N]	3100
F <sub>x</sub> dynamic [N]	2600
F <sub>y</sub> dynamic [N]	6500
F <sub>z</sub> dynamic [N]	2200
M <sub>x</sub> dynamic [Nm]	230
M <sub>y</sub> dynamic [Nm]	270
M <sub>z</sub> dynamic [Nm]	500
F <sub>x</sub> static [N]	3100
F <sub>y</sub> static [N]	8000
F <sub>z</sub> static [N]	3600
M <sub>x</sub> static [Nm]	300
M <sub>y</sub> static [Nm]	400
M <sub>z</sub> static [Nm]	750

### Geometrical moments of inertia of aluminum profile

Elastic modulus [N/mm <sup>2</sup> ]	70000
I <sub>x</sub> [mm <sup>4</sup> ]	4440000

ly [mm <sup>4</sup> ]	4480000
<b>Weight</b>	
Additional Weight per 100 mm [kg]	1.60
Basic Weight [kg]	31.0