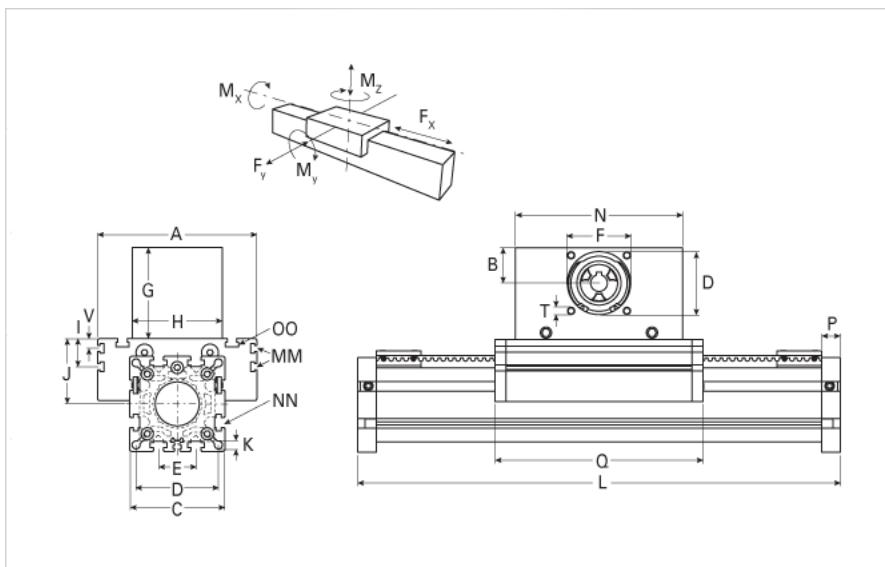
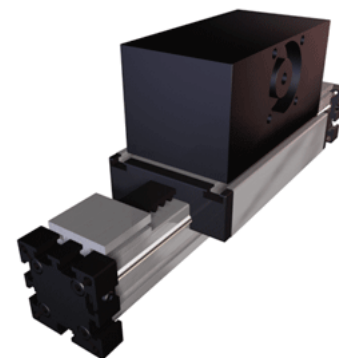


## ELSZ 80

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<b>Details</b>	
Size	80
Belt	8M30
mm/Rev	192
Number of Teeth	24
<b>Dimensions</b>	
Basic Length L [mm]	365
A [mm]	170
B [mm]	39
C [mm]	102
D [mm]	68
E [mm]	40
F [mm]	60
G [mm]	100
H [mm]	100
I [mm]	30
J [mm]	70
K [mm]	8.5
MM	M6
N [mm]	180
NN	M10
O [mm]	88
OO	M10
P [mm]	20
Q [mm]	214
T	M8
V [mm]	10
Shaft Diameter and Length [mm]	18 x 45
Key	6x6x40
<b>Speed</b>	
Speed Maximum [m/s]	6
<b>Forces and Torques</b>	
No-load torque [Nm]	1.1
Tensile force 0.2 sec [N]	2090
Tensile force permanent [N]	1900
Fx dynamic [N]	1800
Fy dynamic [N]	2000
Fz dynamic [N]	1100
Mx dynamic [Nm]	55
My dynamic [Nm]	80
Mz dynamic [Nm]	120
Fx static [N]	1900
Fy static [N]	3000
Fz static [N]	1700
Mx static [Nm]	90
My static [Nm]	110
Mz static [Nm]	150

**Geometrical moments of inertia of aluminum profile**

Elastic modulus [N/mm <sup>2</sup> ]	70000
I <sub>x</sub> [mm <sup>4</sup> ]	1899000
I <sub>y</sub> [mm <sup>4</sup> ]	1897000

**Weight**

Additional Weight per 100 mm [kg]	1.00
Basic Weight [kg]	11.0

**Values for Calculating Inertias**

Pulley Material - Drive Pulley (x1)	Steel
Pulley Material - Idler Pulleys (x2)	Plastic
Pulley Diameter [mm]	61.12
Effective Pulley Width [mm]	100
Belt Weight [kg/m]	0.256
Standard Carriage Weight [kg]	3.64
No-load torque [Nm]	1.1
Friction Coefficient	0.01