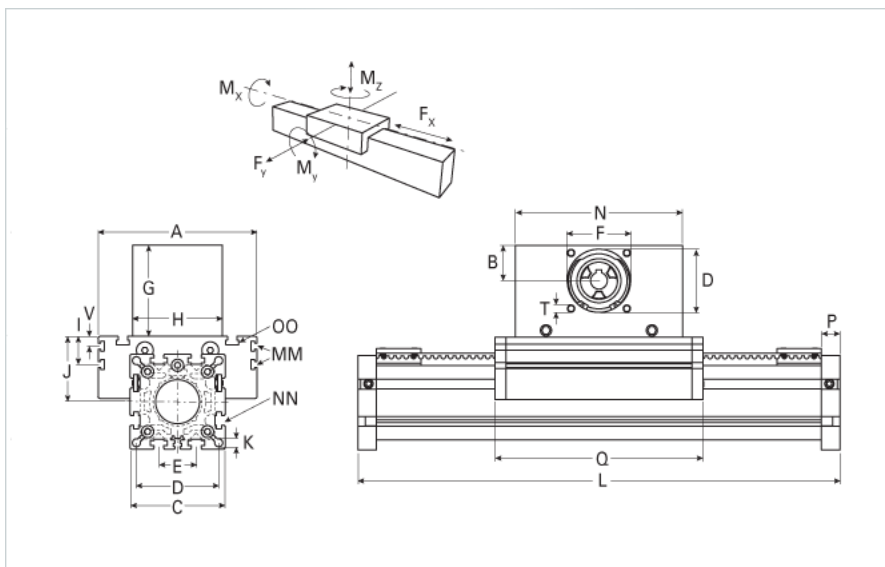
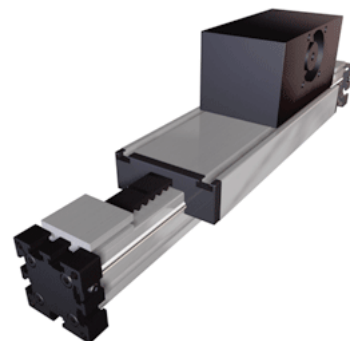


## ELSZ 80 Wide Belt Extended Carriage

Call 800-321-7800 or visit us online at [www.nookindustries.com](http://www.nookindustries.com) to configure and order your ELSZ 80 Wide Belt Extended Carriage today!



<b>Details</b>	
Size	80
Belt	8M50
mm/Rev	256
Number of Teeth	32
<b>Dimensions</b>	
Basic Length L [mm]	625
A [mm]	170
B [mm]	60
C [mm]	102
D [mm]	90
E [mm]	40
F [mm]	80
G [mm]	140
H [mm]	130
I [mm]	30
J [mm]	70
K [mm]	8.5
MM	M6
N [mm]	270
NN	M10
O [mm]	88
OO	M10
P [mm]	20
Q [mm]	469
T	M10
V [mm]	10
Shaft Diameter and Length [mm]	22 x 45
Key	6x6x40
<b>Speed</b>	
Speed Maximum [m/s]	6
<b>Forces and Torques</b>	
No-load torque [Nm]	1.2
Tensile force 0.2 sec [N]	4300
Tensile force permanent [N]	4000
Fx dynamic [N]	3800
Fy dynamic [N]	2000
Fz dynamic [N]	1100
Mx dynamic [Nm]	55
My dynamic [Nm]	80
Mz dynamic [Nm]	120
Fx static [N]	4000
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]	14.0

**Values for Calculating Inertias**

Pulley Material - Drive Pulley (x1)	Steel
Pulley Material - Idler Pulleys (x2)	Plastic
Pulley Diameter [mm]	81.5
Effective Pulley Width [mm]	130
Belt Weight [kg/m]	0.256
Standard Carriage Weight [kg]	4.78
No-load torque [Nm]	1.1
Friction Coefficient	0.01