Product Specification Sheet

ELZZ 100

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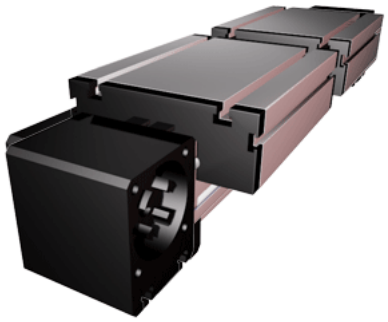

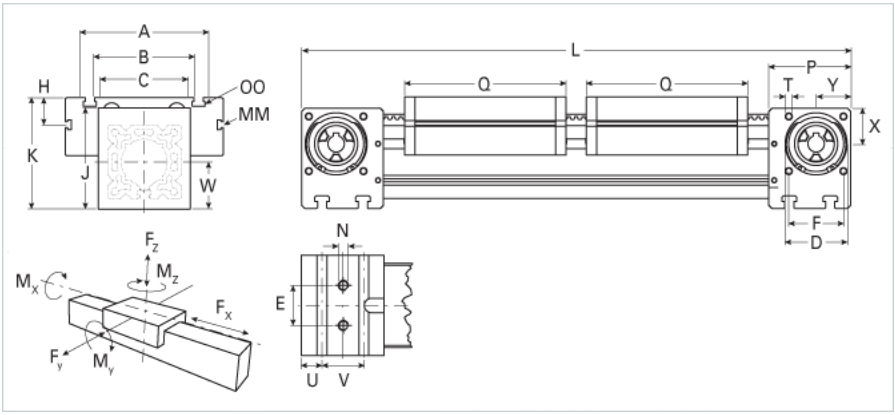

Details	
Size	100
Belt	8M20
mm/Rev	256
Number of Teeth	32
Dimensions	
Basic Length L [mm]	830
A [mm]	230
B [mm]	155
C [mm]	130
D [mm]	90
E [mm]	50
F [mm]	80
G [mm]	-
H [mm]	30
J [mm]	135
K [mm]	154
MM	M10
N	M12
OO	M10
P [mm]	110
Q [mm]	300
T	M10
U [mm]	64
V [mm]	50
W [mm]	65
X [mm]	50
Y [mm]	50
Speed	
Speed Maximum [m/s]	10
Forces and Torques	
No-load torque [Nm]	1.4
Tensile force 0.2 sec [N]	1331
Tensile force permanent [N]	1210
Fx dynamic [N]	1100
Fy dynamic [N]	6500
Fz dynamic [N]	2200
Mx dynamic [Nm]	230
My dynamic [Nm]	270
Mz dynamic [Nm]	500
Fx static [N]	1210
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/mm²]	70000
Ix [mm⁴]	4440000
Iy [mm⁴]	4480000
Weight	
Additional Weight per 100 mm [kg]	1.60
Basic Weight [kg]	33.0
Values for Calulating 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