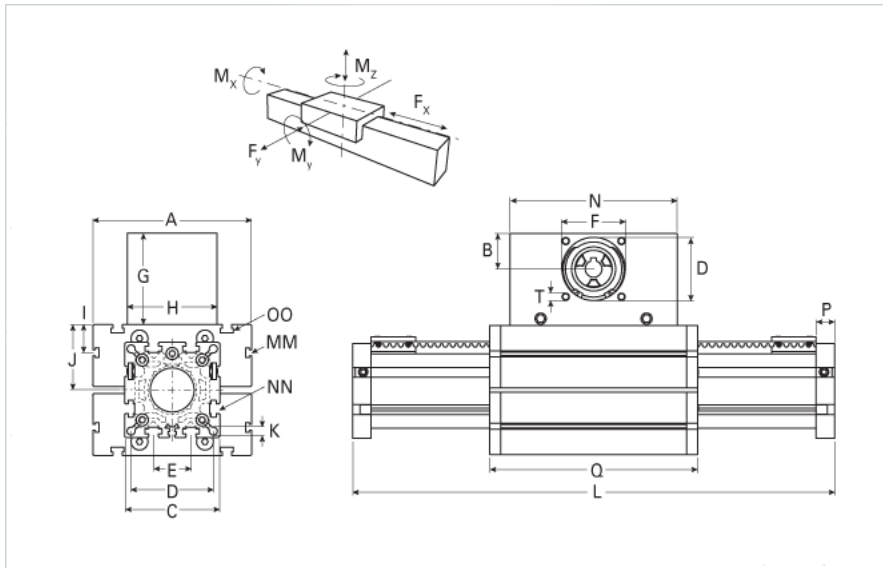
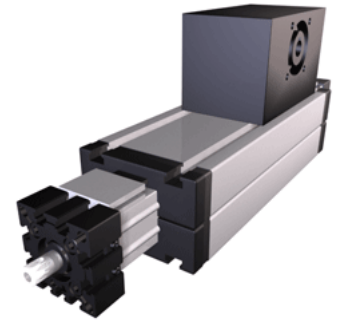


ELSZ 100 WAC Wide Belt Extended Carriage

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| Details | |
|--------------------------------|---------|
| Size | 100 |
| Belt | 8M70 |
| mm/Rev | 304 |
| Number of Teeth | 38 |
| Dimensions | |
| Basic Length L [mm] | 816 |
| A [mm] | 230 |
| B [mm] | 62 |
| C [mm] | 130 |
| D [mm] | 110 |
| E [mm] | 50 |
| F [mm] | 100 |
| G [mm] | 143 |
| H [mm] | 160 |
| I [mm] | 30 |
| J [mm] | 89 |
| K [mm] | 10.5 |
| MM | M10 |
| N [mm] | 310 |
| NN | M12 |
| O [mm] | 112 |
| OO | M10 |
| P [mm] | 30 |
| Q [mm] | 591 |
| T | M10 |
| V [mm] | - |
| Shaft Diameter and Length [mm] | 30 x 55 |
| Key | 8x7x50 |
| Speed | |
| Speed Maximum [m/s] | 8 |
| Forces and Torques | |
| No-load torque [Nm] | 1.5 |
| Tensile force 0.2 sec [N] | 6350 |
| Tensile force permanent [N] | 5900 |
| Fx dynamic [N] | 5750 |
| Fy dynamic [N] | 6500 |
| Fz dynamic [N] | 2200 |
| Mx dynamic [Nm] | 230 |
| My dynamic [Nm] | 270 |
| Mz dynamic [Nm] | 500 |
| Fx static [N] | 5900 |
| 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 |
| I _x [mm ⁴] | 4440000 |
| I _y [mm ⁴] | 4480000 |

Weight

| | |
|-----------------------------------|------|
| Additional Weight per 100 mm [kg] | 1.60 |
| Basic Weight [kg] | 31.0 |

Values for Calculating Inertias

| | |
|--------------------------------------|----------|
| Pulley Material - Drive Pulley (x1) | Aluminum |
| Pulley Material - Idler Pulleys (x2) | Plastic |
| Pulley Diameter [mm] | 96.8 |
| Effective Pulley Width [mm] | 160 |
| Belt Weight [kg/m] | 0.355 |
| Standard Carriage Weight [kg] | 29.45 |
| No-load torque [Nm] | 1.5 |
| Friction Coefficient | 0.01 |