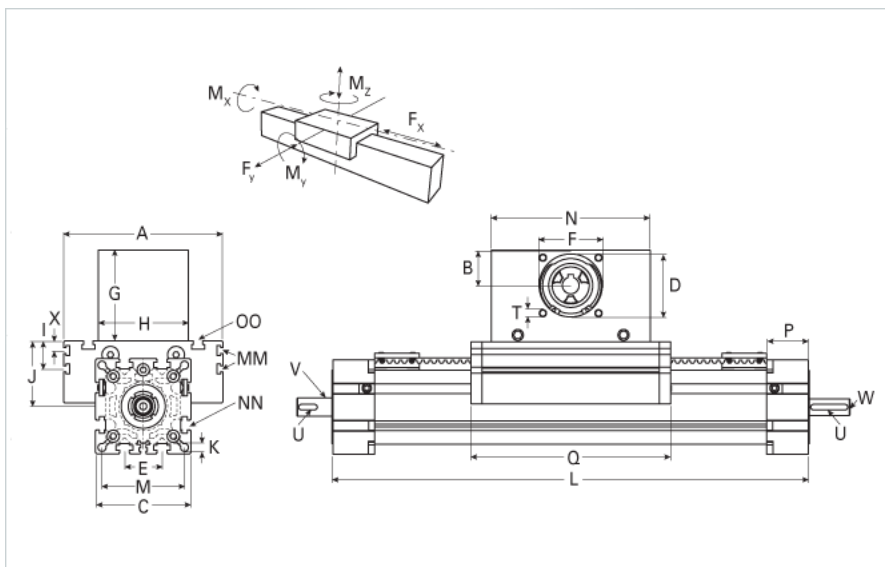
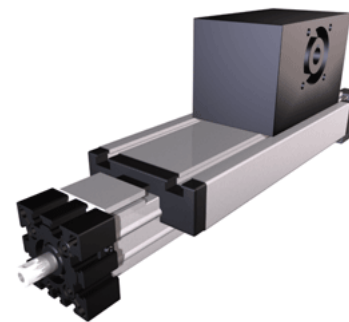


ELSD 80 Wide Belt Extended Carriage

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| Details | |
|--|---------|
| Size | 80 |
| Belt | 8M50 |
| mm/Rev | 256 |
| Number of Teeth | 32 |
| Pully Diameter [mm] | 81.5 |
| Dimensions | |
| Basic Length L [mm] | 615 |
| 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 |
| M [mm] | 88 |
| MM | M6 |
| N [mm] | 270 |
| OO | M10 |
| P [mm] | 45 |
| Q [mm] | 469 |
| T | M10 |
| X [mm] | 10 |
| V (Z Drive End) [mm] | 18 x 30 |
| U (Z Drive End) [mm] | 6x6x20 |
| V (Z Load End) [mm] | 20 x 30 |
| U (Z Load End) [mm] | 6x6x20 |
| W (Z Load End) [mm] | M10x20 |
| Shaft Diameter and Length [mm] | 18 x 45 |
| Key | 6x6x40 |
| Speed | |
| Speed Maximum [m/s] | 6 |
| Forces and Torques | |
| No-load torque Stiction torque Mr [Nm] | 0.1 |
| No-load torque [Nm] | 1.1 |
| Tensile force 0.2 sec [N] | 4300 |
| Tensile force permanent [N] | 4000 |
| Fd [N] | 250 |
| Mr [Nm] | 20 |
| 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 ²] | 70000 |
| Ix [mm ⁴] | 1899000 |
| Iy [mm ⁴] | 1897000 |
| Weight | |
| Additional Weight per 100 mm [kg] | 1.30 |
| Basic Weight [kg] | 13.7 |