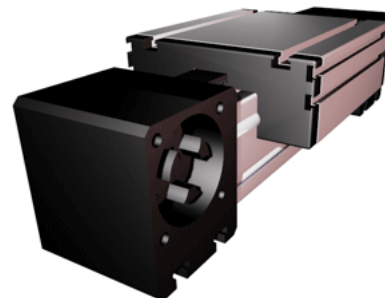
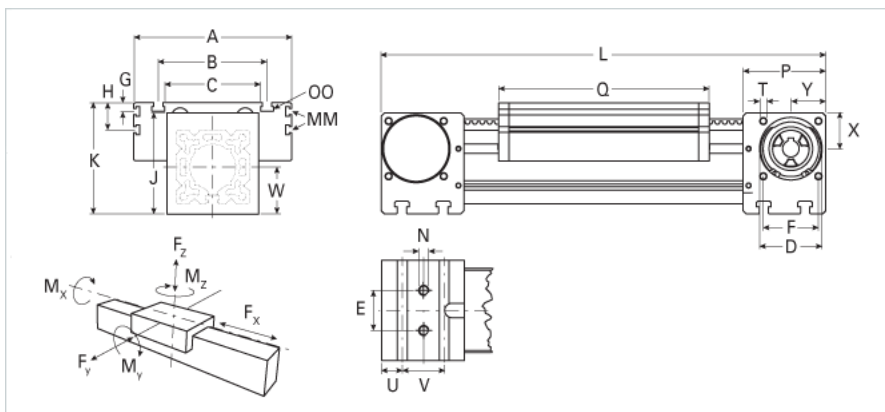


## ELZ 80

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| Details                                            |         |
|----------------------------------------------------|---------|
| Size                                               | 80      |
| Belt                                               | 8M30    |
| mm/Rev                                             | 192     |
| Number of Teeth                                    | 24      |
| Dimensions                                         |         |
| Basic Length L [mm]                                | 375     |
| A [mm]                                             | 170     |
| B [mm]                                             | 117     |
| C [mm]                                             | 100     |
| D [mm]                                             | 68      |
| E [mm]                                             | 40      |
| F [mm]                                             | 60      |
| G [mm]                                             | 10      |
| H [mm]                                             | 30      |
| J [mm]                                             | 110     |
| K [mm]                                             | 121     |
| MM T-Nut                                           | M6      |
| N - Bolt Size                                      | M10     |
| OO - T-Nut                                         | M10     |
| P [mm]                                             | 90      |
| Q [mm]                                             | 194     |
| T T-Nut                                            | M8      |
| U [mm]                                             | 22.5    |
| V [mm]                                             | 45      |
| W [mm]                                             | 51      |
| X [mm]                                             | 39      |
| Y [mm]                                             | 38      |
| Shaft Diameter and Length [mm]                     | 18 x 45 |
| Key                                                | 6x6x40  |
| Speed                                              |         |
| Speed Maximum [m/s]                                | 6       |
| Forces and Torques                                 |         |
| 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   |
| Ix [mm <sup>4</sup> ]                              | 1899000 |
| Iy [mm <sup>4</sup> ]                              | 1897000 |
| Weight                                             |         |
| Additional Weight per 100 mm [kg]                  | 1.00    |
| Basic Weight [kg]                                  | 10.0    |

| Values for Calculating Inertias |       |
|---------------------------------|-------|
| Pulley Material                 | Steel |
| Pulley Diameter [mm]            | 61.12 |
| Effective Pulley Width [mm]     | 100   |
| Belt Weight [kg/m]              | 0.256 |
| Standard Carriage Weight [kg]   | 2.64  |
| No-load torque [Nm]             | 0.9   |
| Friction Coefficient            | 0.01  |