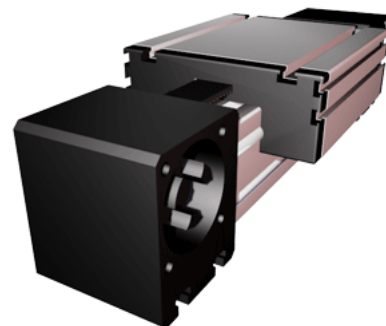
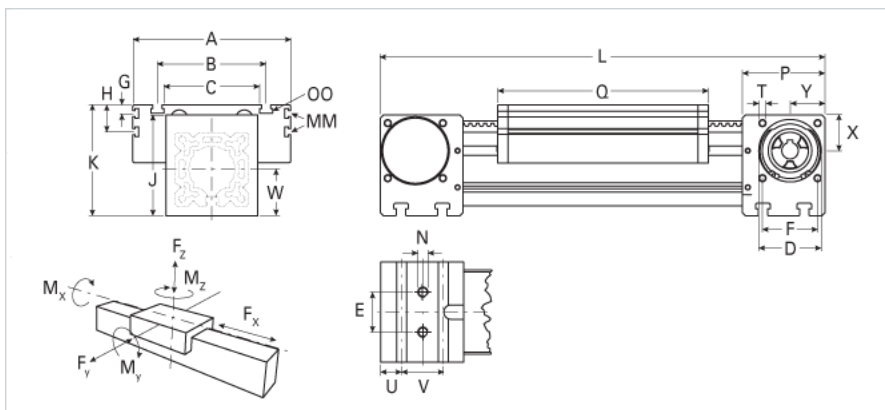


## ELZex 80

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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                             | M6      |
| N                              | M10     |
| OO                             | M10     |
| P [mm]                         | 90      |
| Q [mm]                         | 194     |
| T                              | 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] | 1 |
|---------------------|---|

### Forces and Torques

|                             |      |
|-----------------------------|------|
| No-load torques [Nm]        | 0.9  |
| Tensile force permanent [N] | 1083 |
| Fx dynamic [N]              | 866  |
| Fy dynamic [N]              | 1267 |
| Fz dynamic [N]              | 490  |
| Mx dynamic [Nm]             | 29   |
| My dynamic [Nm]             | 32   |
| Mz dynamic [Nm]             | 81   |
| Fx static [N]               | 1083 |
| Fy static [N]               | 1584 |
| Fz static [N]               | 613  |
| Mx static [Nm]              | 36   |
| My static [Nm]              | 39   |
| Mz static [Nm]              | 100  |

### 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  |