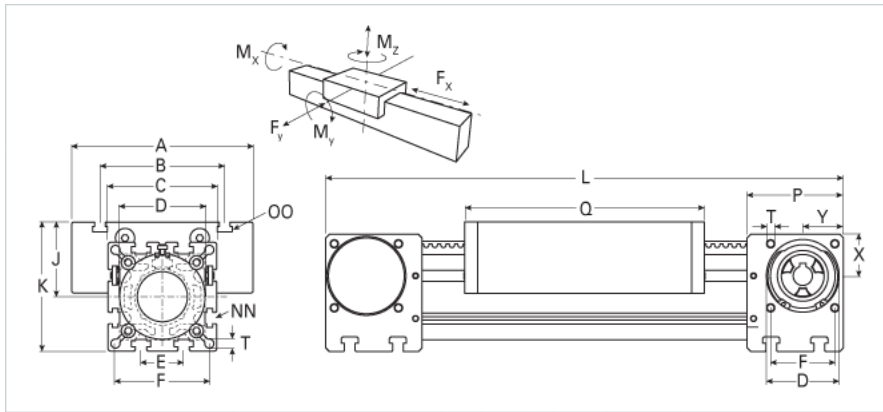
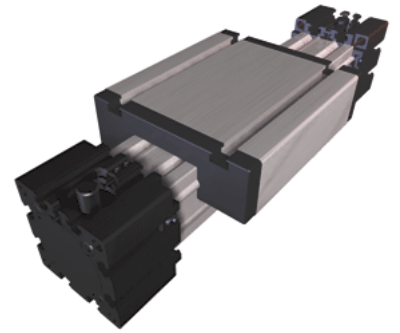


## ELVZ 60S

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### Details

|                 |      |
|-----------------|------|
| Size            | 60S  |
| Belt            | 5M25 |
| mm/Rev          | 80   |
| Number of Teeth | 16   |

### Dimensions

|                                |         |
|--------------------------------|---------|
| Basic Length L [mm]            | 315     |
| A [mm]                         | 170     |
| B [mm]                         | 108     |
| C [mm]                         | 82      |
| D [mm]                         | 62x1    |
| E [mm]                         | 30      |
| F [mm]                         | 69      |
| G [mm]                         | -       |
| H [mm]                         | -       |
| J [mm]                         | 49      |
| K [mm]                         | 94      |
| MM                             | -       |
| NN                             | M8      |
| OO                             | M8      |
| P [mm]                         | 59      |
| Q [mm]                         | 194     |
| T [mm]                         | 8.5     |
| U [mm]                         | 23      |
| V [mm]                         | 37      |
| W [mm]                         | 14      |
| X [mm]                         | 30      |
| Y [mm]                         | 36      |
| Z                              | M6      |
| Shaft Diameter and Length [mm] | 14 x 35 |
| Key                            | 5x5x28  |

### Speed

|                     |   |
|---------------------|---|
| Speed Maximum [m/s] | 4 |
|---------------------|---|

### Forces and Torques

|                             |      |
|-----------------------------|------|
| No-load torque [Nm]         | 0.5  |
| Tensile force 0.2 sec [N]   | 800  |
| Tensile force permanent [N] | 700  |
| Fx dynamic [N]              | 580  |
| Fy dynamic [N]              | 3100 |
| Fz dynamic [N]              | 1600 |
| Mx dynamic [Nm]             | 65   |
| My dynamic [Nm]             | 140  |
| Mz dynamic [Nm]             | 170  |
| Fx static [N]               | 700  |
| Fy static [N]               | 4100 |
| Fz static [N]               | 2160 |
| Mx static [Nm]              | 88   |
| My static [Nm]              | 190  |
| Mz static [Nm]              | 230  |

### Geometrical moments of inertia of aluminum profile

|                                      |        |
|--------------------------------------|--------|
| Elastic modulus [N/mm <sup>2</sup> ] | 70000  |
| Ix [mm <sup>4</sup> ]                | 679000 |
| Iy [mm <sup>4</sup> ]                | 697000 |

| <b>Weight</b>                          |       |
|--|-------|
| Additional Weight per 100 mm [kg]      | 0.62  |
| Basic Weight [kg]                      | 5.8   |
| <b>Values for Calculating Inertias</b> |       |
| Pulley Material                        | Steel |
| Pulley Diameter [mm]                   | 25.46 |
| Effective Pulley Width [mm]            | 82    |
| Belt Weight [kg/m]                     | 0.123 |
| Standard Carriage Weight [kg]          | 2.42  |
| No-load torque [Nm]                    | 0.5   |
| Friction Coefficient                   | 0.01  |