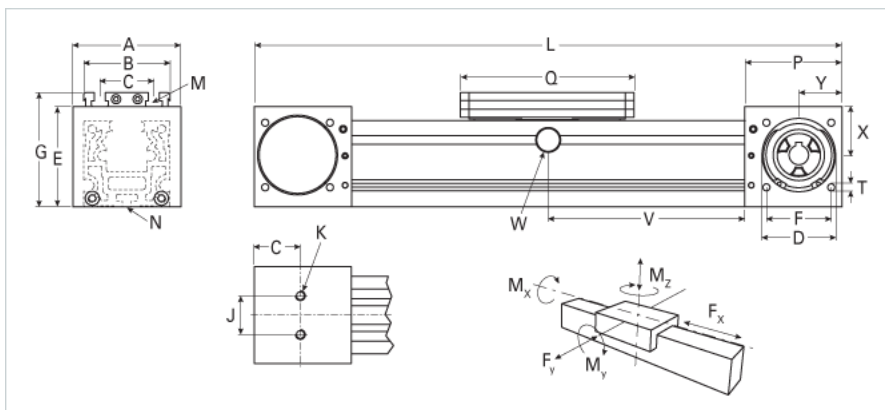
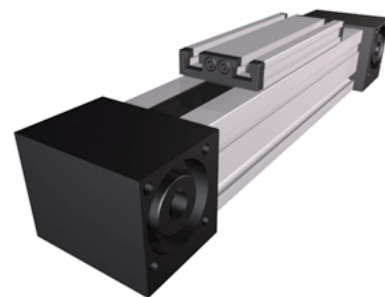


## QLZ 60

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| <b>Details</b>  |         |
|---|---------|
| Size  | 60      |
| Belt  | 5M25    |
| mm/Rev  | 130     |
| Number of Teeth   | 26      |
| <b>Dimensions</b>   |         |
| Basic Length L [mm]                                       | 280     |
| A [mm]  | 80      |
| B [mm]  | 60      |
| C [mm]  | 36      |
| D [mm]  | 47      |
| E [mm]  | 63      |
| F [mm]  | 42      |
| G [mm]  | 79      |
| H [mm]  | 29.5    |
| J [mm]  | 30      |
| K   | M8      |
| M   | M6      |
| N   | M5      |
| P [mm]  | 59      |
| Q [mm]  | 152     |
| T   | M6      |
| X [mm]  | 27      |
| Y [mm]  | 26      |
| Shaft Diameter and Length [mm]                            | 14 x 35 |
| Key   | 5x5x28  |
| <b>Speed</b>  |         |
| Speed Maximum [m/s]                                       | 4       |
| <b>Forces and Torques</b>                                 |         |
| No-load torque [Nm]                                       | 0.6     |
| Tensile force 0.2 sec [N]                                 | 1000    |
| Tensile force permanent [N]                               | 900     |
| F <sub>x</sub> dynamic [N]                                | 800     |
| F <sub>y</sub> dynamic [N]                                | 500     |
| F <sub>z</sub> dynamic [N]                                | 650     |
| M <sub>x</sub> dynamic [Nm]                               | 10      |
| M <sub>y</sub> dynamic [Nm]                               | 50      |
| M <sub>z</sub> dynamic [Nm]                               | 40      |
| F <sub>x</sub> static [N]                                 | 894     |
| F <sub>y</sub> static [N]                                 | 600     |
| F <sub>z</sub> static [N]                                 | 900     |
| M <sub>x</sub> static [Nm]                                | 15      |
| M <sub>y</sub> static [Nm]                                | 60      |
| M <sub>z</sub> static [Nm]                                | 40      |
| <b>Geometrical moments of inertia of aluminum profile</b> |         |
| Elastic modulus [N/mm <sup>2</sup> ]                      | 70000   |
| I <sub>x</sub> [mm <sup>4</sup> ]                         | 430000  |
| I <sub>y</sub> [mm <sup>4</sup> ]                         | 480000  |
| <b>Shaft Details</b>                                      |         |
| Key [mm]  | 5x5x28  |
| Shaft Diameter h6 x Length [mm]                           | 14 x 35 |
| <b>Weight</b>   |         |
| Additional Weight per 100 mm [kg]                         | 0.39    |

|  |       |
|--|-------|
| Basic Weight [kg]                      | 3.2   |
| <b>Values for Calculating Inertias</b> |       |
| Pulley Material                        | Steel |
| Pulley Diameter [mm]                   | 41.38 |
| Effective Pulley Width [mm]            | 80    |
| Belt Weight [kg/m]                     | 0.123 |
| Standard Carriage Weight [kg]          | 0.46  |
| No-load torque [Nm]                    | 0.6   |
| Friction Coefficient                   | 0.01  |