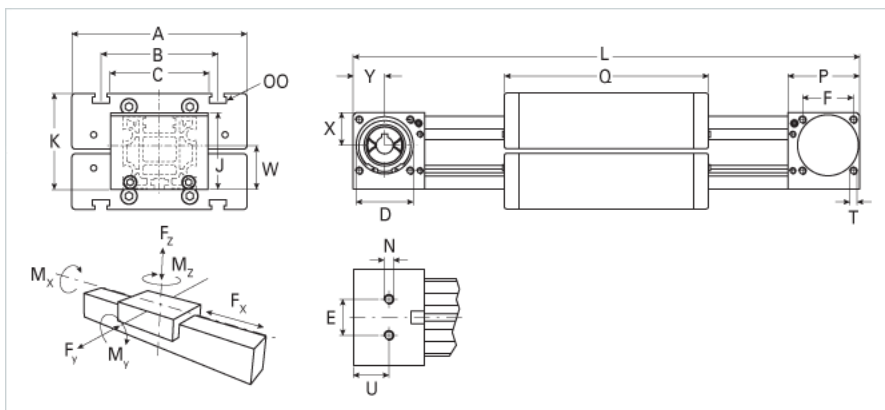
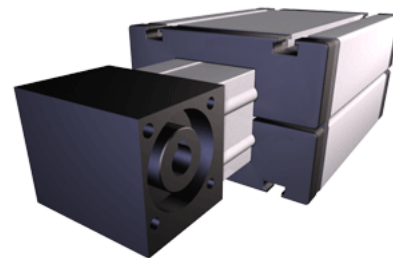


## MLZ 60 WAC

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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]                                       | 306     |
| A [mm]  | 144     |
| B [mm]  | 96      |
| C [mm]  | 80      |
| D [mm]  | 47      |
| E [mm]  | 30      |
| F [mm]  | 42      |
| G [mm]  | -       |
| H [mm]  | -       |
| J [mm]  | 63      |
| K [mm]  | 79      |
| MM  | -       |
| N   | M8      |
| OO  | M8      |
| P [mm]  | 59      |
| Q [mm]  | 184     |
| T   | M6      |
| U [mm]  | 29.5    |
| W [mm]  | 36      |
| X [mm]  | 27      |
| Y [mm]  | 26      |
| Shaft Diameter and Length [mm]                            | 14 x 35 |
| Key   | 5x5x28  |
| <b>Speed</b>  |         |
| Speed Maximum [m/s]                                       | 5       |
| <b>Forces and Torques</b>                                 |         |
| No-load torque [Nm]                                       | 0.6     |
| Tensile force 0.2 sec [N]                                 | 1000    |
| Tensile force permanent [N]                               | 900     |
| Fx dynamic [N]  | 800     |
| Fy dynamic [N]  | 2000    |
| Fz dynamic [N]  | 1100    |
| Mx dynamic [Nm]   | 43      |
| My dynamic [Nm]   | 70      |
| Mz dynamic [Nm]   | 100     |
| Fx static [N]   | 894     |
| Fy static [N]   | 3000    |
| Fz static [N]   | 1700    |
| Mx static [Nm]  | 67      |
| My static [Nm]  | 90      |
| Mz static [Nm]  | 120     |
| <b>Geometrical moments of inertia of aluminum profile</b> |         |
| Elastic modulus [N/mm <sup>2</sup> ]                      | 70000   |
| Ix [mm <sup>4</sup> ]                                     | 483000  |
| Iy [mm <sup>4</sup> ]                                     | 503000  |
| <b>Weight</b>   |         |
| Additional Weight per 100 mm [kg]                         | 0.60    |

|  |       |
|--|-------|
| Basic Weight [kg]                      | 4.7   |
| <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]          | 3.13  |
| No-load torque [Nm]                    | 0.6   |
| Friction Coefficient                   | 0.01  |