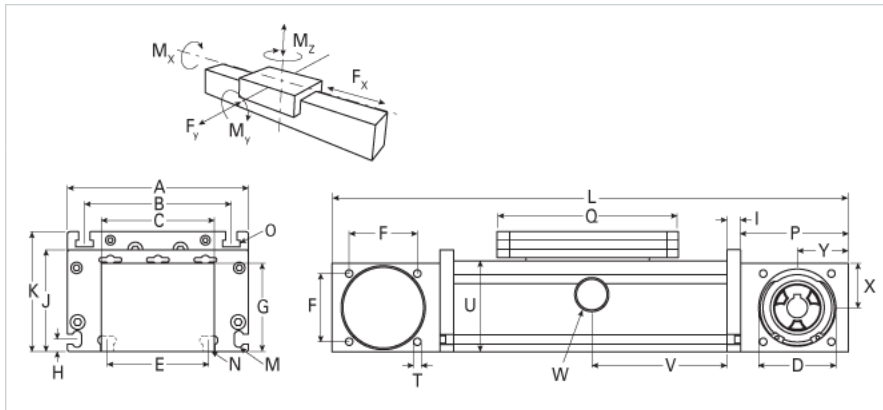
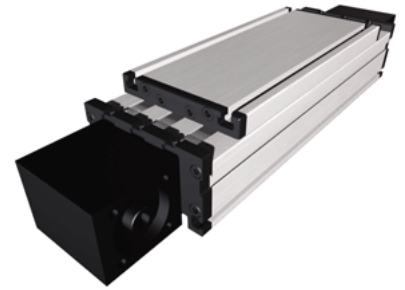


DLZ 120 Extended Carriage

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| Details | |
|---|---------|
| Size | 120 |
| Belt | 5M20 |
| mm/Rev | 130 |
| Number of Teeth | 26 |
| Pully Diameter [mm] | 41.4 |
| Dimensions | |
| Basic Length L [mm] | 370 |
| A [mm] | 120 |
| B [mm] | 96 |
| C [mm] | 80 |
| D [mm] | 47 |
| E [mm] | 78 |
| F [mm] | 42 |
| G [mm] | 60 |
| H [mm] | 10 |
| I [mm] | 10 |
| J [mm] | 68 |
| K [mm] | 79 |
| M | M5 |
| N | M6 |
| O | M6 |
| P [mm] | 70 |
| Q [mm] | 196 |
| T | M6 |
| U [mm] | 60 |
| X [mm] | 30 |
| Y [mm] | 35 |
| Speed | |
| Speed Maximum [m/s] | 4 |
| Forces and Torques | |
| No-load torque [Nm] | 3.5 |
| Tensile force 0.2 sec [N] | 100 |
| Tensile force permanent [N] | 900 |
| Fx dynamic [N] | 800 |
| Fy dynamic [N] | 900 |
| Fz dynamic [N] | 1000 |
| Mx dynamic [Nm] | 125 |
| My dynamic [Nm] | 120 |
| Mz dynamic [Nm] | 90 |
| Fx static [N] | 894 |
| Fy static [N] | 1100 |
| Fz static [N] | 1250 |
| Mx static [Nm] | 150 |
| My static [Nm] | 140 |
| Mz static [Nm] | 100 |
| Geometrical moments of inertia of aluminum profile | |
| Elastic modulus [N/mm ²] | 70000 |
| Ix [mm ⁴] | 660000 |
| Iy [mm ⁴] | 3860000 |
| Weight | |
| Additional Weight per 100 mm [kg] | 0.85 |
| Basic Weight [kg] | 5.1 |

Values for Calculating Inertias

| | |
|---------------------------------------|----------|
| Pulley Material | Aluminum |
| Pulley Diameter [mm] | 41.38 |
| Effective Pulley Width [mm] | 80 |
| Belt Weight [kg/m] | 0.123 |
| Standard Carriage Weight [kg] | 1.27 |
| No-load torque (w/cover bands) [Nm] | 1.6 |
| No-load torque (w/o cover bands) [Nm] | 1.2 |
| Friction Coefficient | 0.01 |