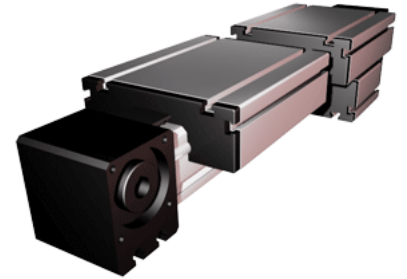
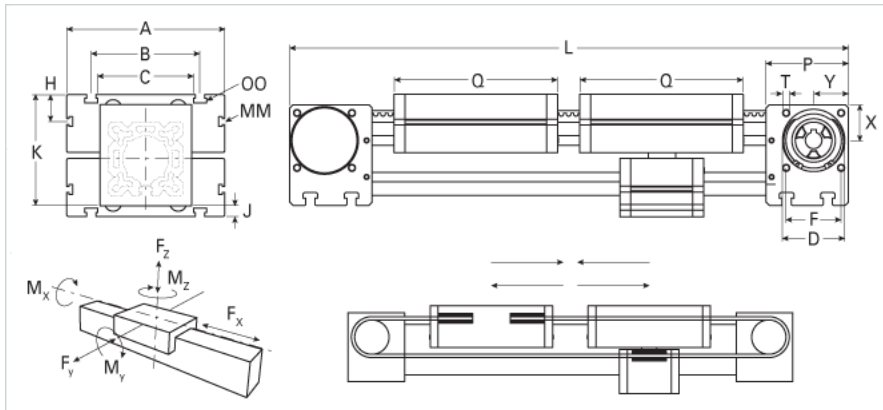


ELZ 125 Dual Carriage

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Details

| | |
|-----------------|------|
| Size | 125 |
| Belt | 8M70 |
| mm/Rev | 304 |
| Number of Teeth | 38 |

Dimensions

| | |
|--------------------------------|---------|
| Basic Length L [mm] | 990 |
| A [mm] | 295 |
| B [mm] | 200 |
| C [mm] | 160 |
| D [mm] | 110 |
| F [mm] | 100 |
| G [mm] | - |
| H [mm] | 30 |
| J [mm] | 25.5 |
| K [mm] | 216 |
| MM | M10 |
| OO | M12 |
| P [mm] | 130 |
| Q [mm] | 365 |
| T | M10 |
| X [mm] | 60 |
| Y [mm] | 60 |
| Shaft Diameter and Length [mm] | 30 x 55 |
| Key | 8x7x50 |

Speed

| | |
|---------------------|----|
| Speed Maximum [m/s] | 10 |
|---------------------|----|

Forces and Torques

| | |
|-----------------------------|-------|
| No-load torque [Nm] | 1.4 |
| Tensile force 0.2 sec [N] | 4300 |
| Tensile force permanent [N] | 4000 |
| Fx dynamic [N] | 3800 |
| Fy dynamic [N] | 9000 |
| Fz dynamic [N] | 4500 |
| Mx dynamic [Nm] | 450 |
| My dynamic [Nm] | 600 |
| Mz dynamic [Nm] | 1150 |
| Fx static [N] | 5900 |
| Fy static [N] | 12000 |
| Fz static [N] | 6000 |
| Mx static [Nm] | 600 |
| My static [Nm] | 750 |
| Mz static [Nm] | 1350 |

Geometrical moments of inertia of aluminum profile

| | |
|--------------------------------------|----------|
| Elastic modulus [N/mm ²] | 70000 |
| Ix [mm ⁴] | 10150000 |
| Iy [mm ⁴] | 10150000 |

Weight

| | |
|-----------------------------------|------|
| Additional Weight per 100 mm [kg] | 2.10 |
| Basic Weight [kg] | 53.5 |

Values for Calculating Inertias

| | |
|----------------------|----------|
| Pulley Material | Aluminum |
| Pulley Diameter [mm] | 96.77 |

| | |
|-------------------------------|-------|
| Effective Pulley Width [mm] | 160 |
| Belt Weight [kg/m] | 0.480 |
| Standard Carriage Weight [kg] | 12.10 |
| No-load torque [Nm] | 1.8 |
| Friction Coefficient | 0.01 |