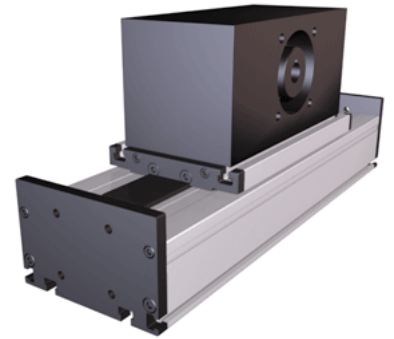
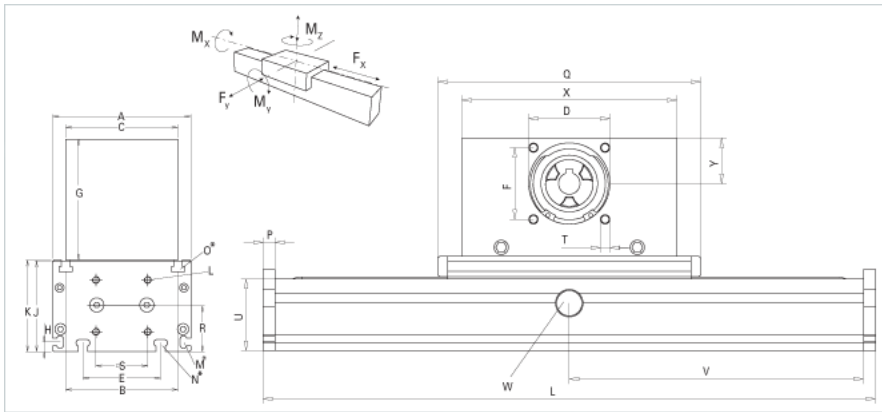


## DSSZ 120

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### Details

|                     |      |
|---------------------|------|
| Size                | 120  |
| Belt                | 8M30 |
| mm/Rev              | 192  |
| Number of Teeth     | 24   |
| Pully Diameter [mm] | 61.1 |

### Dimensions

|                                |         |
|--------------------------------|---------|
| Basic Length L [mm]            | 230     |
| A [mm]                         | 120     |
| B [mm]                         | 96      |
| C [mm]                         | 100     |
| D [mm]                         | 68      |
| E [mm]                         | 78      |
| F [mm]                         | 60      |
| G [mm]                         | 100     |
| H [mm]                         | 10      |
| J [mm]                         | 78      |
| K [mm]                         | 79      |
| L [mm]                         | M6      |
| M                              | M5      |
| N                              | M6      |
| O                              | M6      |
| P [mm]                         | 10      |
| Q [mm]                         | 200     |
| R [mm]                         | 39      |
| S [mm]                         | 42      |
| T                              | M8      |
| U [mm]                         | 60      |
| X [mm]                         | 180     |
| Y [mm]                         | 39      |
| Shaft Diameter and Length [mm] | 18 x 45 |
| Key                            | 6x6x40  |

### Speed

|                     |   |
|---------------------|---|
| Speed Maximum [m/s] | 5 |
|---------------------|---|

### Forces and Torques

|                             |      |
|-----------------------------|------|
| Fx [N] 10000 km             | 1800 |
| Fy [N] 10000 km             | 1405 |
| Fz [N] 10000 km             | 1650 |
| Mx [Nm] 10000 km            | 64   |
| My [Nm] 10000 km            | 77   |
| Mz [Nm] 10000 km            | 76   |
| Fx [N] 5000 km              | 1900 |
| Fy [N] 5000 km              | 1776 |
| Fz [N] 5000 km              | 2090 |
| Mx [Nm] 5000 km             | 81   |
| My [Nm] 5000 km             | 97   |
| Mz [Nm] 5000 km             | 96   |
| No-load torque [Nm]         | 1.4  |
| Tensile force 0.2 sec [N]   | 2090 |
| Tensile force permanent [N] | 1900 |

### Geometrical moments of inertia of aluminum profile

|                                      |        |
|--------------------------------------|--------|
| Elastic modulus [N/mm <sup>2</sup> ] | 70000  |
| Ix [mm <sup>4</sup> ]                | 461000 |

|                                   |         |
|-----------------------------------|---------|
| ly [mm <sup>4</sup> ]             | 3419000 |
| <b>Weight</b>                     |         |
| Additional Weight per 100 mm [kg] | 1.80    |
| Basic Weight [kg]                 | 1.2     |