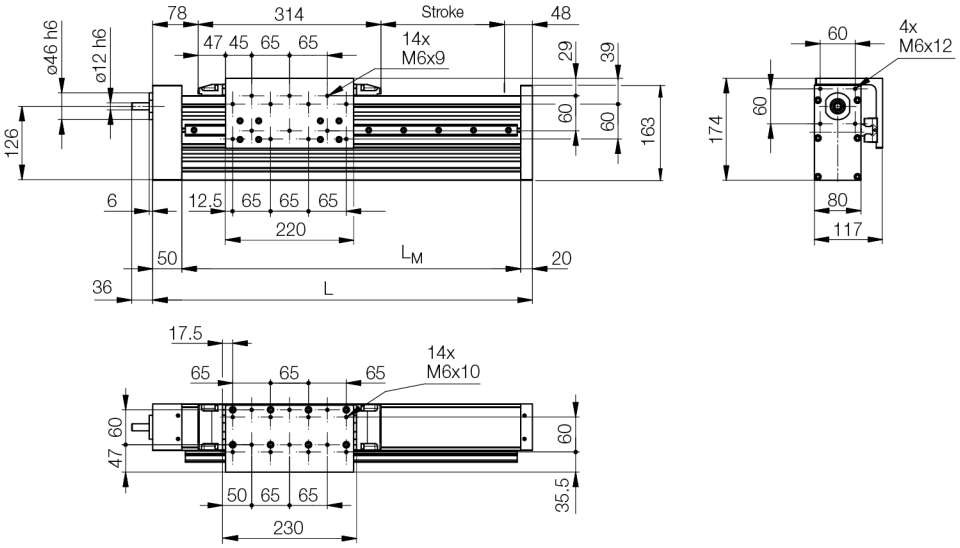
# Bridge module BM4...BR...L/R with ball screw drive and lateral support rail left/right




| Nominal size | Dimensions | | | | |
|---|---|---|---|---|---|
| Designation | L [mm] | $L_M$ [mm] | Length ball screw [mm] | Length steel strip [mm] | Weight [kg] |
| BM4...BR...L/R | Stroke + 440 | L – 70 | L + 30 | L – 36 | 14.00 kg + 1.80 kg/100 mm Stroke |

| BM | BSD | Axial load rates | | Positioning accuracy | Repeating accuracy | Accelera-tion | Axial play | | Idle torque |
|---|---|---|---|---|---|---|---|---|---|
| Size | d x p | $C_0$ | $C_{dyn}$ | | | $a_{max}$ | Type | Axial play | |

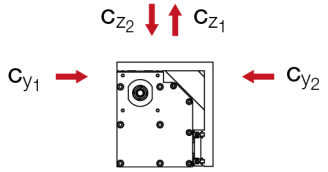
d x p = screw diameter x thread pitch
1) backlash not factored in

A = axial play
R = reduced play
V = preloaded

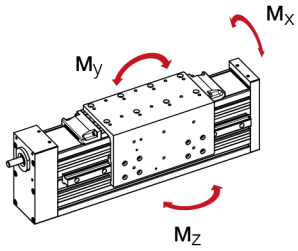
| BM | Movement speed | | Moments of inertia | | Stroke max. | Steel strip | Feed and friction force | Moved mass |
|---|---|---|---|---|---|---|---|---|
| | Guide | Drive | Z / Y | | | | | |
| Type | $v_{max}$ [m/s] | $v_{max}$ [m/s] | $I_Y$ [cm⁴] | $I_Z$ [cm⁴] | [mm] | | $F_V$ [N] | $m_b$ [kg] |
| BM4...R...L/R | 5.0 | 2) | 721 | 401 | 3000 | without | 50.00 | 4.390 |
| | | | | | | with | 60.00 | |

2) for ball screw drive, dependent on rotational speed characteristics, spindle length and relevant critical rotational speed.

Load ratings




Torques




| Bridge module | Maximum permissible load [kN] | | | | Maximum permissible torque [Nm] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | static | | dynamic | | static | | | dynamic | | |
| Type | $C_{Y_{0\,1,2}}$ | $C_{Z_{0\,1,2}}$ | $C_{Y_{1,2}}$ | $C_{Z_{1,2}}$ | $M_{X_0}$ | $M_{y_0}$ | $M_{Z_0}$ | $M_X$ | $M_y$ | $M_Z$ |
| BM4...R...L/R | 119.9 | 119.9 | 68.4 | 68.4 | 3030 | 3395 | 3395 | 1868 | 3056 | 3056 |

The determination of dynamic load ratings and torques is based on a 50,000 m stroke. If comparative values must be calculated for a 100,000 m stroke, the values for $M_x$, $M_y$, $M_z$ and C must be divided by the factor 1.26.

With a view to serviceable life, loads of less than 20% of the dynamic load ratings have generally proved to be expedient.

CAD data

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