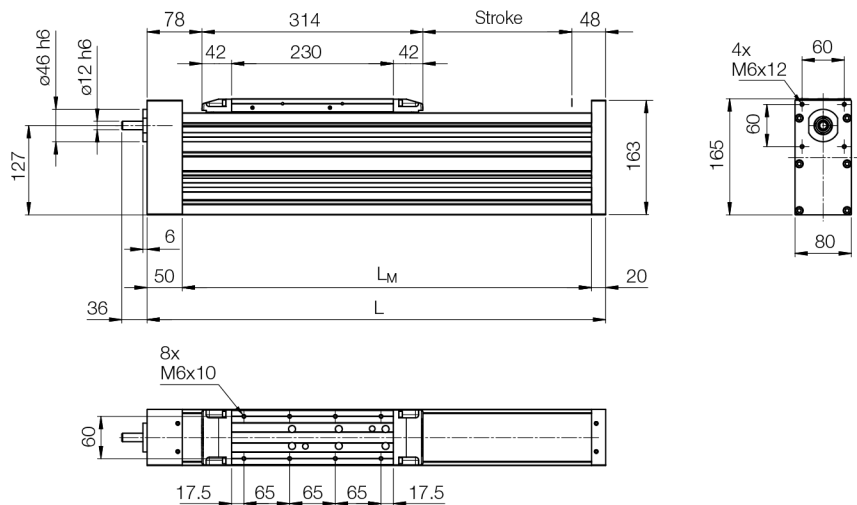


Bridge module BM4...BR...N with ball screw drive



Nominal size	Dimensions				
Designation	L [mm]	L _M [mm]	Length ball screw [mm]	Length steel strip [mm]	Weight [kg]
BM4...BR...N	Stroke + 440	L – 70	L + 30	L – 36	11.24 kg + 1.55 kg/100 mm Stroke

BM	BSD	Axial load rates		Positioning accuracy	Repeating accuracy	Acceleration	Axial play		Idle torque
Size	d x p [mm]	C ₀ [N]	C _{dyn} [N]	[μm/mm]	[mm]	a _{max} [m/s ²]	Type	Axial play [mm]	[Nm]
BM4...R...	20x20	5705	4912	52/300	< 0.05 ¹⁾	10.0	A	< 0.20	0.200
					< 0.03 ¹⁾		R	< 0.02	
					< 0.01 ¹⁾		V	—	0.400

$d \times p$ = screw diameter x thread pitch

1) backlash not factored in

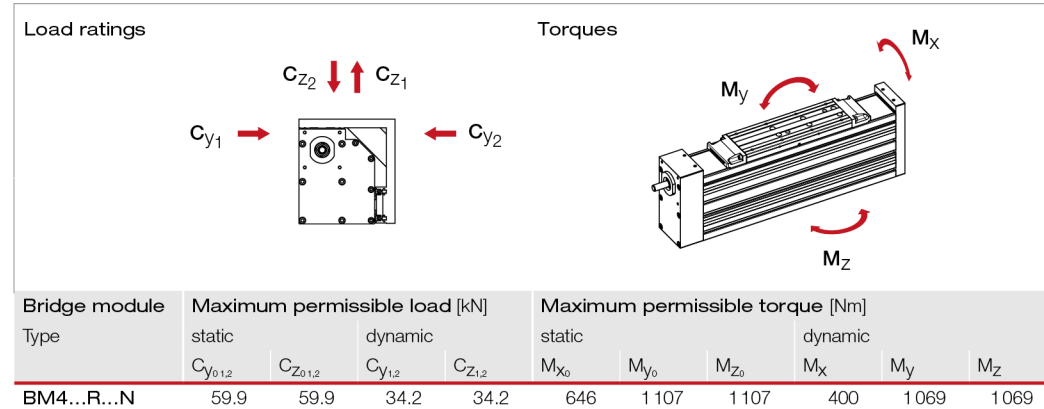
A = axial play

R = reduced play

V = preloaded

BM	Movement speed		Moments of inertia		Stroke max.	Steel strip	Feed and friction force	Moved mass
Type	Guide $v_{\max}$ [m/s]	Drive $v_{\max}$ [m/s]	I_y [cm ⁴]	I_z [cm ⁴]	[mm]		F_v [N]	m_b [kg]
BM4...R...N	5.0	2)	708	332	3000	without	25.00	2.500
						with	35.00	

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



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

Enquiry (technical/quote)

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