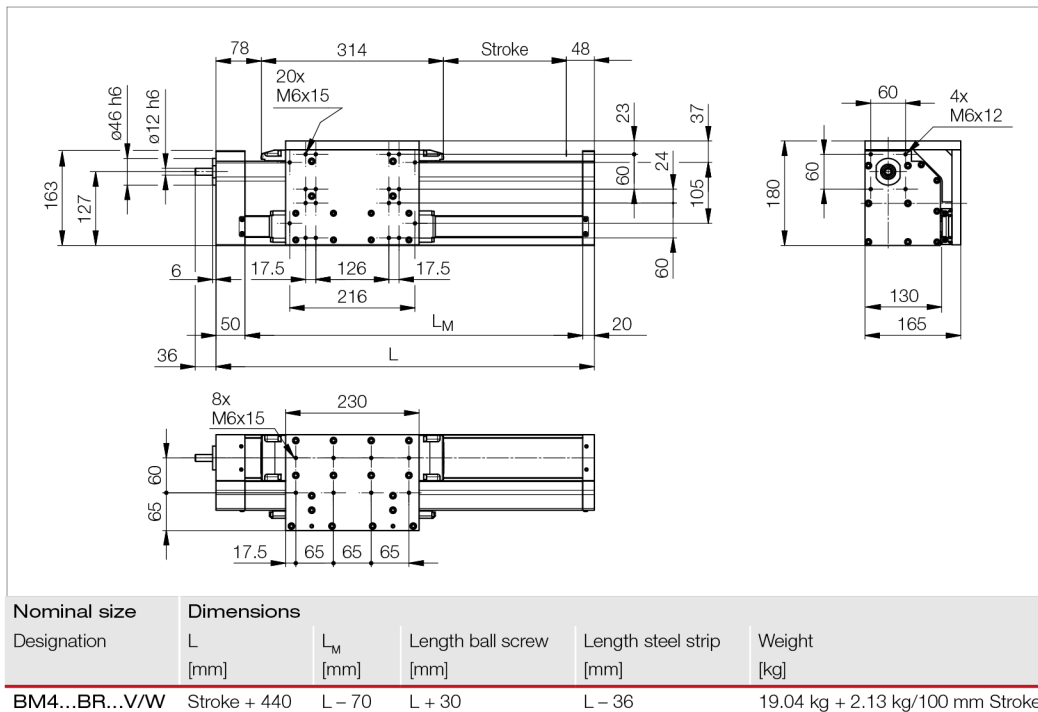


Bridge module BM4...BR...V/W with ball screw drive and lateral profile left/right



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 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
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...V/W	5.0	2)	1074	834	3000	without	50.00	6.820
						with	70.00	

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]					
Type	static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic
	C _{y0,1,2}	C _{z0,1,2}	C _{y1,2}	C _{z1,2}	M _{x0}	M _{y0}	M _{z0}	M _x	M _y	M _z
BM4...R...V/W	119.9	119.9	68.4	68.4	4296	3523	3523	3060	3150	3150

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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