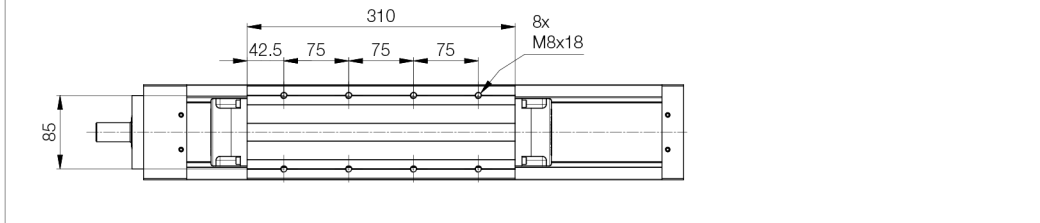
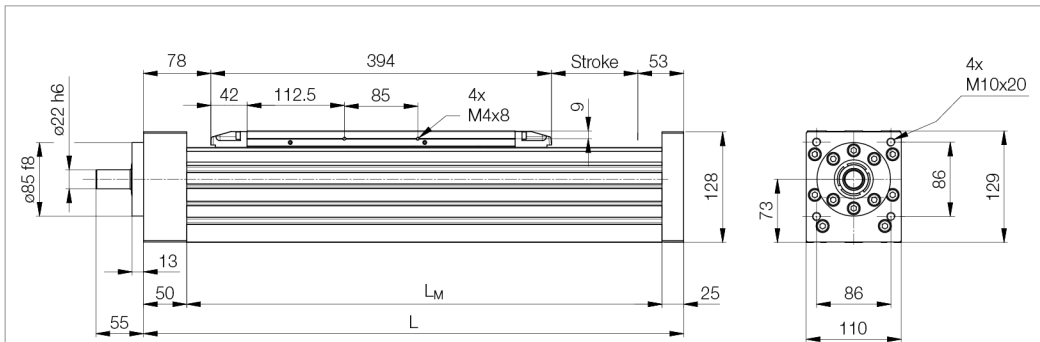


Linear module LM5...BR...N... with ball screw drive



Nominal size	Dimensions				
	Designation	L [mm]	L _M [mm]	Length ball screw [mm]	Length steel strip [mm]
LM5...BR...N	Stroke + 525	L - 75	L + 50	L - 44	16.8 kg + 1.9 kg/100 mm stroke

LM Size	BSD d x p [mm]	Axial load rates		Positioning accuracy [μm/mm]	Repeating accuracy [mm]	Acceleration a _{max} [m/s ²]	Axial play		Idle torque [Nm]
		C ₀ [N]	C _{dyn} [N]				Type	Axial play [mm]	
LM5...R...	32 x 5	11538	8947	52/300	< 0.03 ¹⁾ < 0.01 ¹⁾	10.0	R	< 0.02	0.080
							V	—	0.200
	32 x 10	11538	8947	52/300	< 0.03 ¹⁾ < 0.01 ¹⁾	10.0	R	< 0.02	0.160
							V	—	0.400
	32 x 20	11538	8947	52/300	< 0.03 ¹⁾ < 0.01 ¹⁾	10.0	R	< 0.02	0.320
							V	—	0.800
	32 x 32	11538	8947	52/300	< 0.03 ¹⁾ < 0.01 ¹⁾	10.0	R	< 0.02	0.600
							V	—	1.200

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

R = reduced axial play
 V = preloaded

LM Type	Movement speed		Moments of inertia		Hub max. [mm]	Steel strip	Feed and friction force	Moved mass
	Guide v _{max} [m/s]	Drive v _{max} [m/s]	I _y [cm ⁴]	I _z [cm ⁴]				
LM5...R...N	5.0	²⁾	432.7	594.0	3000	ohne mit	30.00 40.00	5.330

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

Linear modul Type	Load ratings				Torques						
	Maximum permissible load [kN]				Maximum permissible torque [Nm]						
	static	C _{Z0,1,2}	C _{Y1,2}	C _{Z1,2}	static	M _{X0}	M _{Y0}	M _{Z0}	dynamic	M _X	M _Y
LM5...R...N	85.0	85.0	49.6	49.6	1080	2316	2316	684	2290	2290	2290

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.

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