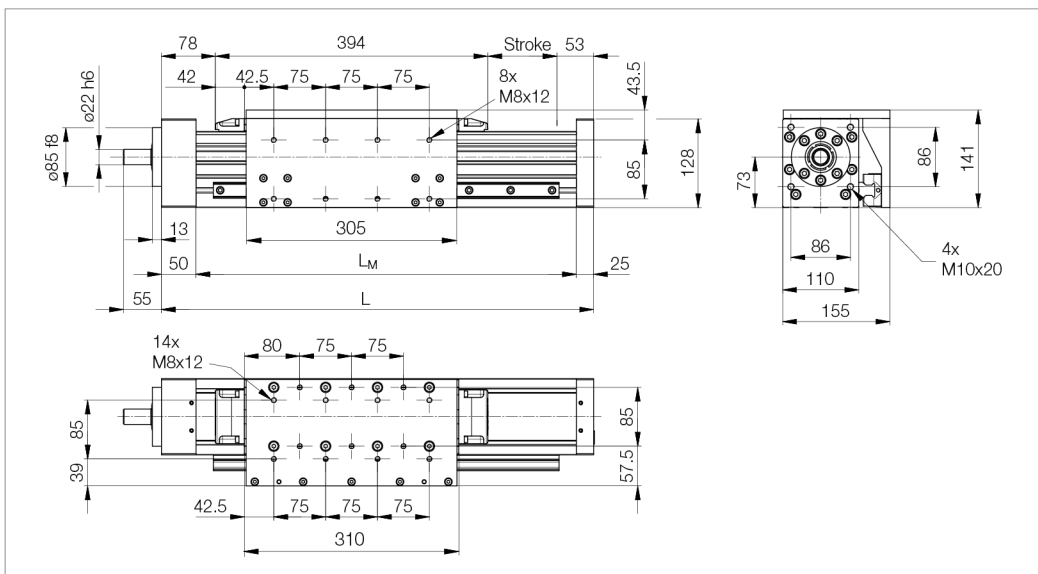


Linear module LM5...BR...L/R... with ball screw drive and lateral support rail left/right



Nominal size	Dimensions				
Designation	L	L _M	Length ball screw	Length steel strip	Weight
	[mm]	[mm]	[mm]	[mm]	[kg]

LM5...BR...L/R	Stroke + 525	L - 75	L + 50	L - 44	21.75 kg + 2.21 kg/100 mm stroke
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LM	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]
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	Movement speed		Moments of inertia		Hub 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]
LM5...R...L/R	5.0	2)	434.6	595.3	3000	ohne	60.00	8.820
						mit	70.00	

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

Load ratings		Torques								
Linear modul	Maximum permissible load [kN]	Maximum permissible torque [Nm]								
Type	static C _{y0,1,2}	dynamic C _{y1,2}	static C _{z0,1,2}	dynamic C _{z1,2}	M _{x0}	M _{y0}	M _{z0}	M _x	M _y	M _z
LM4...R...L/R	119.9	119.9	68.4	68.4	3030	3860	3860	1868	3432	3432

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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