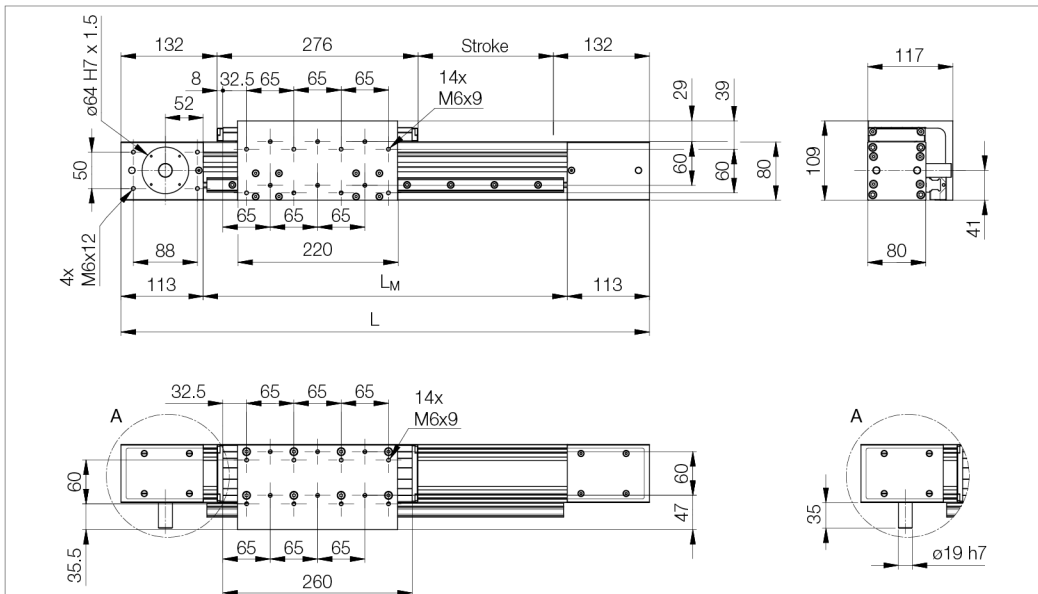


≡ Linear module LM4...NZ...L/R XL with toothed belt drive and lateral support rail left/right



Nominal size	Dimensions			
Designation	L [mm]	L _M [mm]	Belt length [mm]	Weight [kg]
LM4...NZ...L/R	Stroke + 540	L – 226	2 x Stroke + 900	10.86 kg + 1.16 kg/100 mm Stroke

Variants/dimensions with protective strip (LM4...BZ...L/R) see catalogue

XL Please contact LINE TECH for
Consulting & Engineering →

Enquiry (technical/quote)

LM Size	Toothed belt drive				Axial load F [N]	Positioning accuracy [μm/mm]	Repeating accuracy .../1000 mm [mm]	Acceler- ation a _{max} [m/s ²]
	Type/division	Pinion d ₃ x l _R [mm]	Stroke/rev [mm]	Tension ³⁾ [mm/m]				
LM4...Z...	HTD5M	65.25 x 45	205	0.105	... ¹⁾	200/1000 ²⁾	< 0.20 ²⁾	50.0 ¹⁾

d₃ x l_R = pinion diameter x pinion width

¹⁾ depending on speed and load

²⁾ backlash not factored in

³⁾ belt tension/metre [mm/m] per 100 N tensile force

LM Type	Movement speed		Moments of inertia Z		Stroke max. [mm]	Steel strip	Feed and friction force F _V [N]	Moved mass m _b [kg]
	Guide v _{max} [m/s]	Drive v _{max} [m/s]	I _y [cm ⁴]	I _z [cm ⁴]				
LM4...Z...L/R	5.0	4)	132.3	198.5	XL: 13880	without	50.00	3.875
						with	60.00	3.890

⁴⁾ for toothed belt drive, dependent on load and speed and permissible movement speed of the linear guide

Linear modul Type	Load ratings				Torques					
	static	dynamic	static	dynamic	static	dynamic	static	dynamic	static	dynamic
LM4...Z...L/R	Cy0.1.2	Cy1.2	Cz0.1.2	Cz1.2	Mx0	Mx	My0	My	Mz0	Mz
	119.9	119.9	68.4	68.4	3030	4772	4772	1868	4115	4115

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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