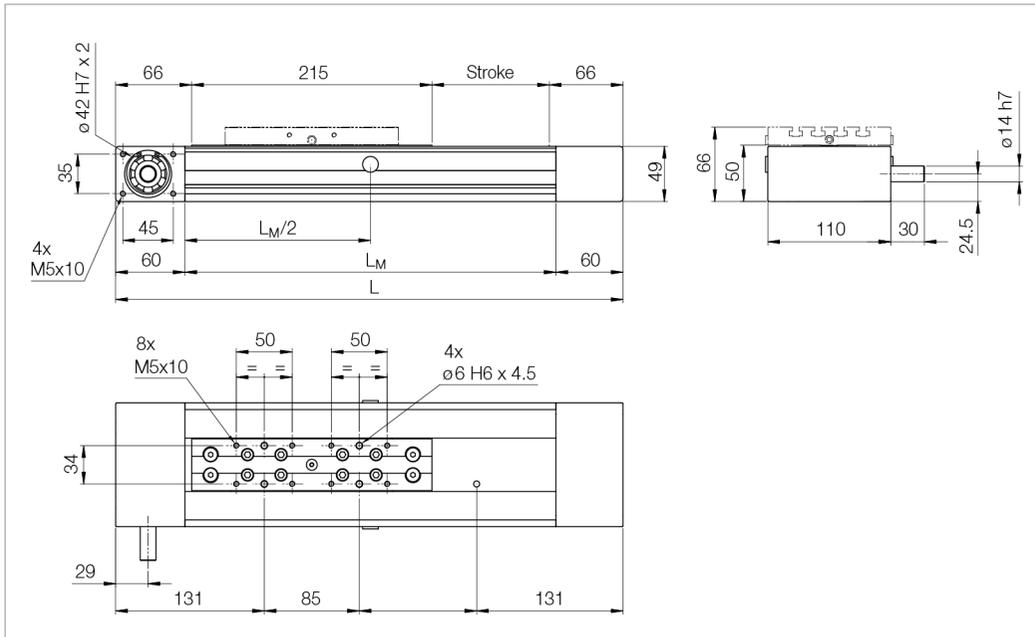


≡ Compact unit KE2.4...Z... XL with 4 runner blocks (long carriage) and toothed belt drive



Nominal size	Dimensions			
Designation	L [mm]	L _M [mm]	Belt length [mm]	Weight [kg]
KE2.4...Z...	Stroke + 347	L - 120	2 x Stroke + 535	5.22 kg + 0.720 kg/100 mm Stroke

KE...Z...	Toothed belt drive				Axial load rating F [N]	Positioning accuracy [μ/mm]	Repeating accuracy .../1000 mm [mm]	Acceleration a _{max} [m/s ²]
	Type/Pitch	Toothed pinion d ₃ x l _p [mm]	Stroke/R [mm]	Elongation ²⁾ [mm/m]				
KE2...Z...	HTD5M	38.2 x 54	120	0.084	1)	200/1000 ²⁾	< 0.20 ²⁾	50.0 ¹⁾

d₃ x l_p = Pinion diameter x Pinion width

1) Depends on speed and load

2) Belt elongation/metre [mm/m] per 100 N tensile force

KE...Z...	Travel speed		Area moment of inertia		Stroke ⁴⁾ max. [mm]	Feed and friction force F _V [N]	Mass transported m _b [kg]
	Guide V _{max} [m/min]	Drive V _{max} [m/min]	I _Y [cm ⁴]	I _Z [cm ⁴]			
KE2.4...Z...	300	3)	32.7	282.9	XL: 12 500	40	2.24

3) Depends on load, rotation speed, and permissible travel speed of the guides

4) Longer strokes on request

Compact unit Type	Maximum permissible forces [kN]				Maximum permissible torques [Nm]					
	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
KE2.4...Z...	70	70	36	36	2120	1926	1820	1180	1542	1542

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.