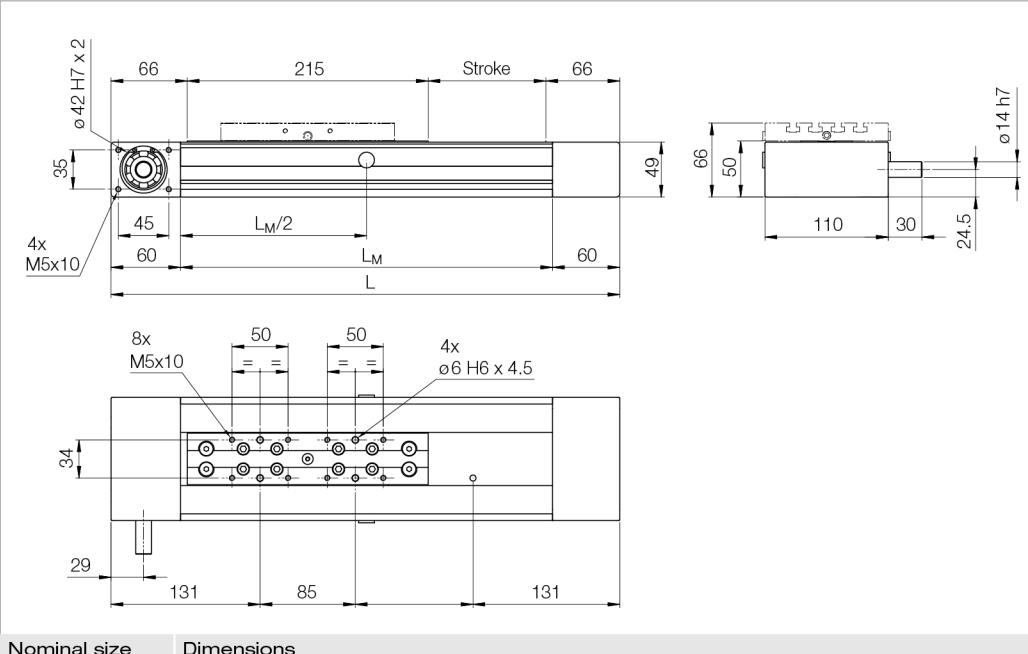


Compact unit KE2.4...Z... with 4 runner blocks (long carriage) and toothed belt drive



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]
	Size	Type/Pitch	Toothed pinion d ₃ x l _R [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_R = 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	5700	40	2.24

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

4) Longer strokes on request

Load ratings		Torques								
Compact unit Type	Maximum permissible forces [kN]		Maximum permissible torques [Nm]							
	static C _{y0,1,2}	dynamic C _{z0,1,2}	static C _{y1,2}	dynamic C _{z1,2}	static M _{x0}	dynamic M _x	static M _{y0}	dynamic M _y	static M _{z0}	dynamic 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.

CAD data

Enquiry (technical/quote)

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