

Compact unit KE2.2...Z... with 2 runner blocks (short carriage) and toothed belt drive

KE...Z...	Toothed belt drive				Axial load rating	Positioning accuracy	Repeating accuracy	Acceleration
Size	Type/Pitch	Toothed pinion $d_3 \times l_R$ [mm]	Stroke/R [mm]	Elongation ²⁾ [mm/m]	F [N]	[μ /mm]	.../1000 mm [mm]	a_{max} [m/s ²]
KE2...Z...	HTD5M	38.2 x 54	120	0.084	¹⁾	200/1000 ²⁾	< 0.20 ²⁾	50.0 ¹⁾

$d_3 \times l_R$ = Pinion diameter x Pinion width

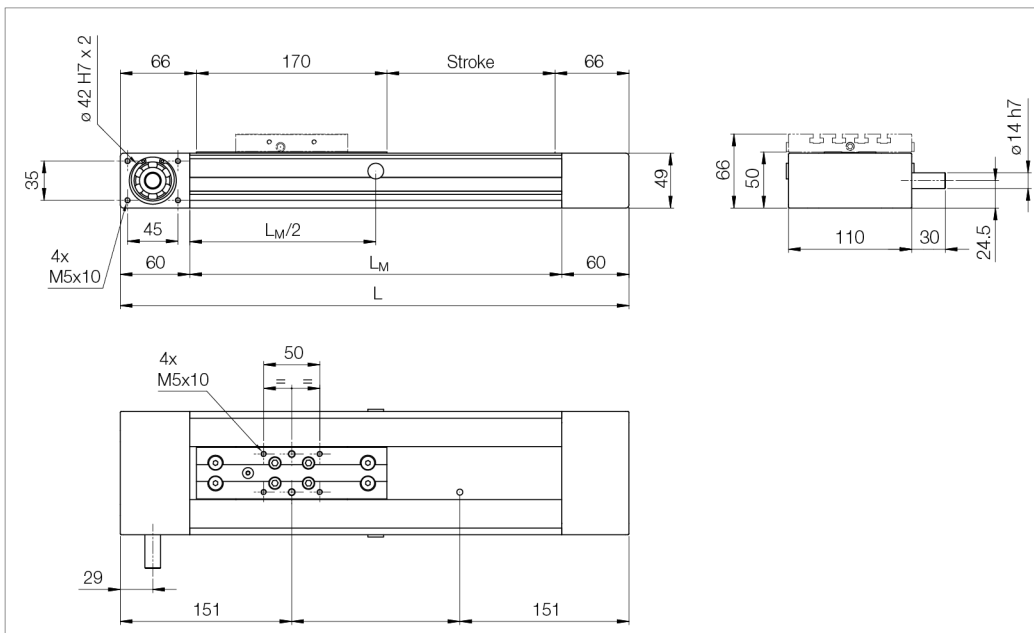
¹⁾ Depends on speed and load

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

KE...Z...	Travel speed		Area moment of inertia		Stroke ⁴⁾ max.	Feed and friction force	Mass transported
Type	Guide v_{max} [m/min]	Drive v_{max} [m/min]	I_y [cm ⁴]	I_z [cm ⁴]		F_v [N]	m_b [kg]
KE2.2...Z...	300	³⁾	32.7	282.9	5700	20	1.29

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

⁴⁾ Longer strokes on request



Nominal size	Dimensions		Belt length [mm]	Weight [kg]
Designation	L [mm]	L_M [mm]		
KE2.2...Z...	Stroke + 302	L - 120	2 x Stroke + 480	4.12 kg + 0.720 kg/100 mm Stroke

Load ratings

Torques

Compact unit
Type

Maximum permissible forces [kN]

static

dynamic

$C_{y0.1,2}$

$C_{z0.1,2}$

$C_{y1,2}$

$C_{z1,2}$

Maximum permissible torques [Nm]

static

dynamic

M_{x0}

M_{y0}

M_{z0}

M_x

M_y

M_z

KE2.2...Z...

35

35

18

18

1064

204

204

590

226

226

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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