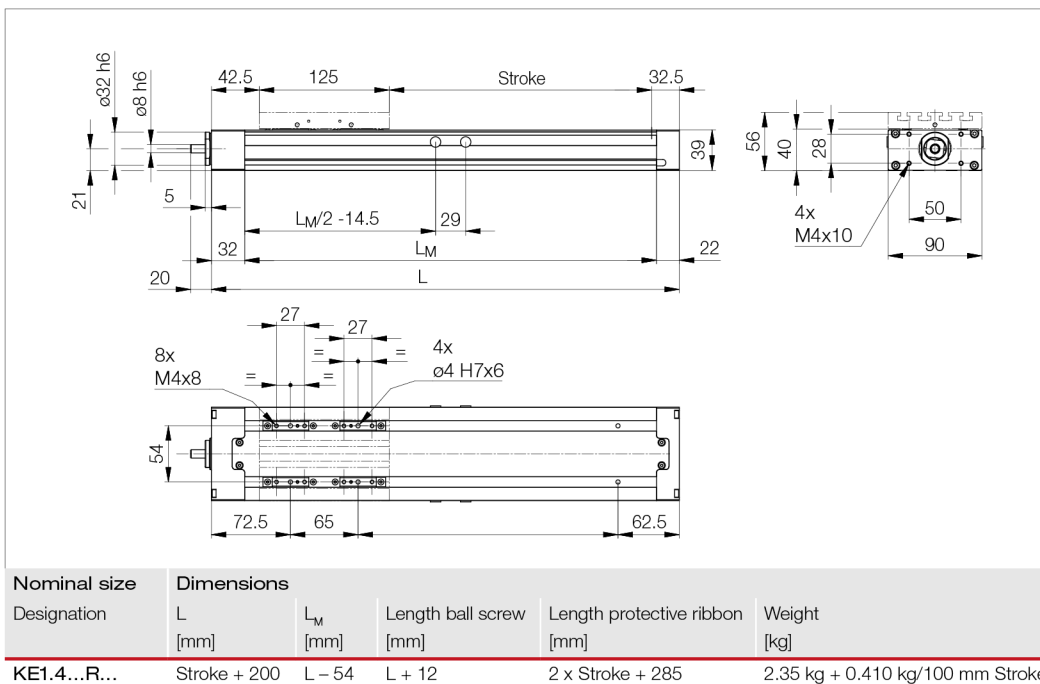


Compact unit KE1.4...R... with 2 carriages and ball screw drive



KE	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]
KE1...R...	12 x 5	3333	3099	52/300	< 0.03 ¹⁾	10.0	R	< 0.02	0.020
					< 0.01 ¹⁾		V	—	0.090
	12 x 10	3333	3099	52/300	< 0.03 ¹⁾	10.0	R	< 0.02	0.045
					< 0.01 ¹⁾		V	—	0.180

d x p = screw diameter x thread pitch

¹⁾ backlash not factored in

²⁾ also available with 23 μm / 300 mm

V = preloaded

KE...R...	Movement speed		Moments of inertia		Stroke max.	Protective ribbons	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]
KE1.4...R...	3.0	²⁾	11.5	95.5	1250	without	12.00	0.680
						with	16.00	

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

Load ratings				Torques						
Compact unit				Maximum permissible load [kN]						
Type	static				dynamic			static		
	C _{y0,1,2}	C _{z0,1,2}	C _{y1,2}	C _{z1,2}	C _{y1,2}	C _{z1,2}		M _{x0}	M _{y0}	M _{z0}
KE1.4...R...	22.5	22.5	13.0	13.0	550	330	330	316	210	210

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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