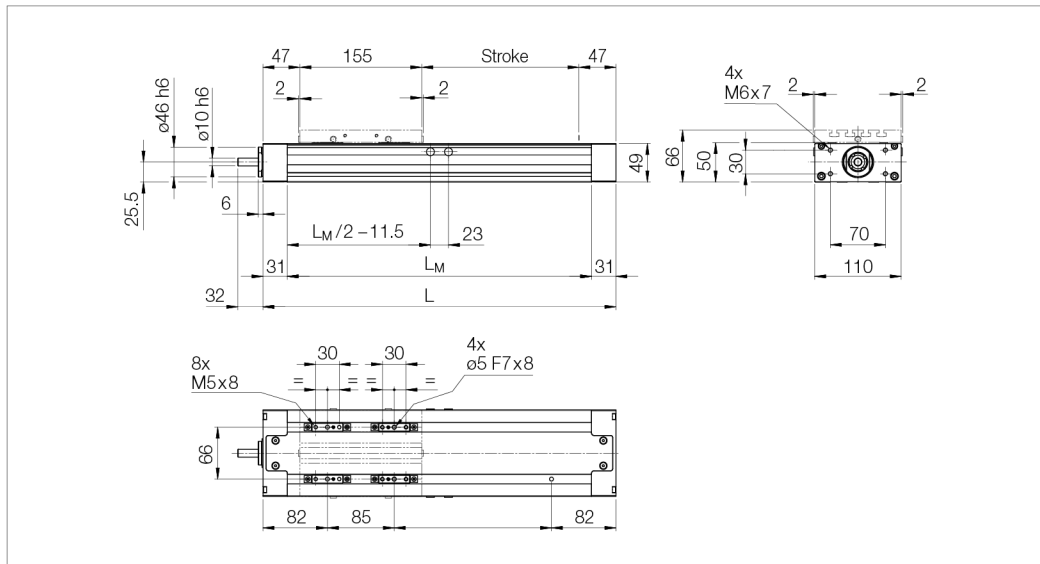


Compact unit KE2.4...R... with 2 carriages and ball screw drive



Nominal size	Dimensions				Weight [kg]
	L [mm]	L _M [mm]	Length ball screw [mm]	Length protective ribbon [mm]	
KE2.4...R...N	Stroke + 249	L - 62	L + 16	2 x Stroke + 379	3.25 kg + 0.852 kg/100 mm Stroke

KE Size	BSD d x p [mm]	Axial load rates		Positioning accuracy [µm/mm]	Repeating accuracy [mm]	Acceleration a _{max} [m/s ²]	Axial play		Idle torque [Nm]
		C ₀ [N]	C _{dyn} [N]				Type	Axial play [mm]	
KE2...R...	16 x 5	4551	4327	52/300	< 0.03 ¹⁾ < 0.01 ¹⁾	10.0	R	< 0.02	0.030
							V	—	0.100
	16 x 10	4551	4327	52/300	< 0.03 ¹⁾ < 0.01 ¹⁾	10.0	R	< 0.02	0.060
							V	—	0.200
	16 x 16	4551	4327	52/300	< 0.03 ¹⁾ < 0.01 ¹⁾	10.0	R	< 0.02	0.120
							V	—	0.320

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... Type	Movement speed		Moments of inertia		Stroke max. [mm]	Protective ribbons	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]				
KE2.4...R...	5.0	²⁾	29.4	242.5	1290	without	15.00	1.370
						with	20.00	

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

Compact unit Type	Maximum permissible load [kN]				Maximum permissible torque [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...R...	70.0	70.0	36.0	36.0	2120	1400	1392	1180	1180	1180

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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