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

KE Size	BSD d x p [mm]	Axial load rates C_0 [N]	 C_{dyn} [N]	Positioning accuracy [µm/mm]	Repeating accuracy [mm]	Acceleration a_{max} [m/s²]	Axial play Type	 Axial play [mm]	Idle torque [Nm]
KE2...R...	16 x 5	4551	4327	52/300	< 0.03 [1]	10.0	R	< 0.02	0.030
					< 0.01 [1]		V	—	0.100
	16 x 10	4551	4327	52/300	< 0.03 [1]	10.0	R	< 0.02	0.060
					< 0.01 [1]		V	—	0.200
	16 x 16	4551	4327	52/300	< 0.03 [1]	10.0	R	< 0.02	0.120
					< 0.01 [1]		V	—	0.320

d x p = screw diameter x thread pitch

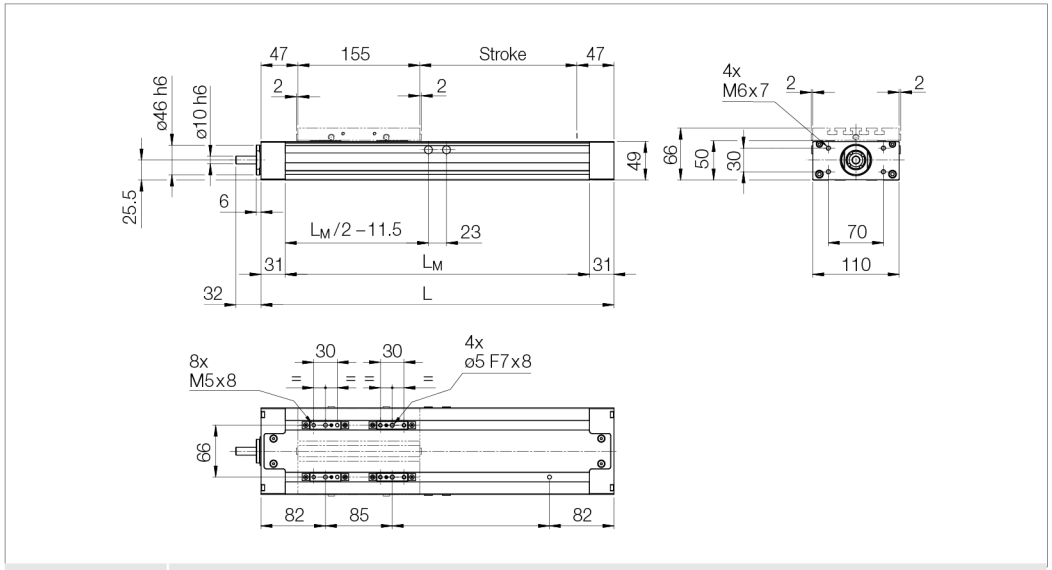
[1] backlash not factored in

[2] also available with 23 µm / 300 mm

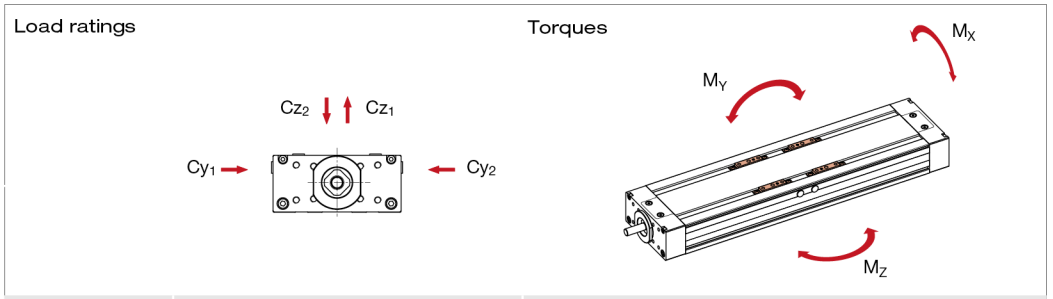
V = preloaded

KE...R... Type	Movement speed Guide v_{max} [m/s]	 Drive v_{max} [m/s]	Moments of inertia I_Y [cm⁴]	 I_Z [cm⁴]	Stroke max. [mm]	Protective ribbons	Feed and friction force F_V [N]	Moved mass m_b [kg]
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.



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



Compact unit Type	Maximum permissible load [kN] static $C_{y0\,1,2}$	 $C_{z0\,1,2}$	 dynamic $C_{y1,2}$	 $C_{z1,2}$	Maximum permissible torque [Nm] static M_{x0}	 M_{y0}	 M_{z0}	 dynamic 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

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