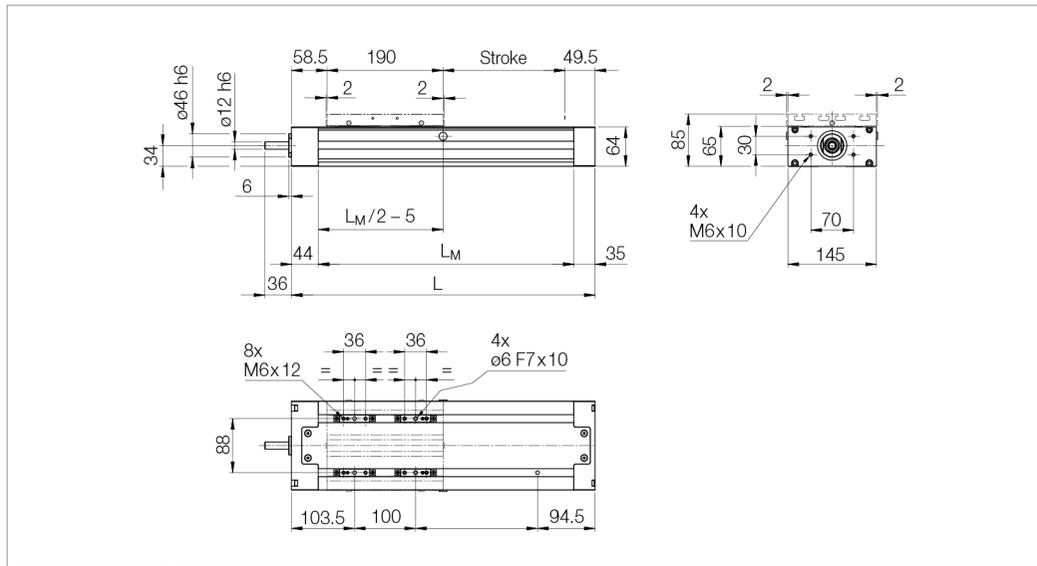


Compact unit KE3.4...R... with 2 carriages and ball screw drive



| Nominal size | Dimensions | | | | |
|--------------|--------------|--------|---------------------|------------------------|----------------------------------|
| | Designation | L [mm] | L _M [mm] | Length ball screw [mm] | Length protective ribbon [mm] |
| KE3.4...R... | Stroke + 298 | L - 79 | L + 17 | 2 x Stroke + 454 | 7.62 kg + 1.232 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] | |
| KE3...R... | 20 x 5 | 5705 | 4912 | 52/300 | < 0.03 ¹⁾ | 10.0 | R | < 0.02 | 0.050 |
| | | | | | | | V | — | 0.120 |
| | 20 x 10 | 5705 | 4912 | 52/300 | < 0.03 ¹⁾ | 10.0 | R | < 0.02 | 0.100 |
| | | | | | | | V | — | 0.250 |
| | 20 x 20 | 5705 | 4912 | 52/300 | < 0.03 ¹⁾ | 10.0 | R | < 0.02 | 0.200 |
| | | | | | | | V | — | 0.400 |

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] | | | | |
| KE3.4...R... | 5.0 | ²⁾ | 93.3 | 746.0 | 1750 | without | 20.00 | 2.470 |
| | | | | | | with | 25.00 | |

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 |
| KE3.4...R... | 119.9 | 119.9 | 68.4 | 68.4 | 4854 | 2100 | 2100 | 3014 | 2044 | 2044 |

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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