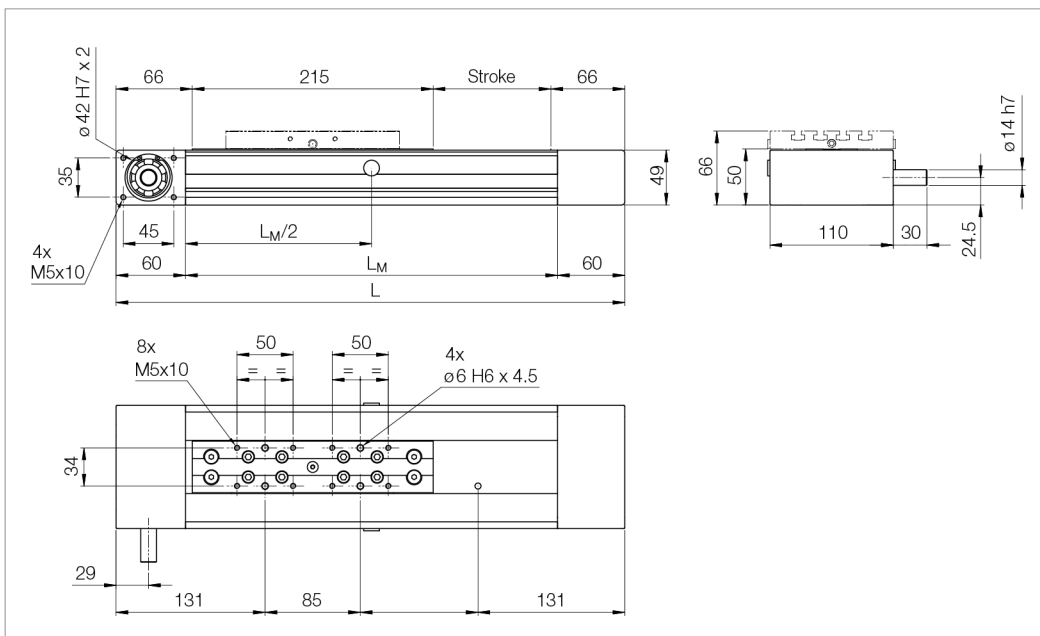


Compact unit KE2.4...Z... with 4 runner blocks (long carriage) and toothed belt drive



| Nominal size | Dimensions | | | |
|--------------|--------------|---------------------|------------------|----------------------------------|
| Designation | L [mm] | L _M [mm] | Belt length [mm] | Weight [kg] |
| KE2.4...Z... | Stroke + 347 | L - 120 | 2 x Stroke + 535 | 5.22 kg + 0.720 kg/100 mm Stroke |

| KE...Z... | Toothed belt drive | | | | Axial load rating F [N] | Positioning accuracy [μ/mm] | Repeating accuracy .../1000 mm [mm] | Acceleration a _{max} [m/s ²] |
|------------|--------------------|--|------------------|------------------------------------|----------------------------|--------------------------------|---|--|
| | Type/Pitch | Toothed pinion d ₃ x l _p [mm] | Stroke/R [mm] | Elongation ²⁾ [mm/m] | | | | |
| KE2...Z... | HTD5M | 38.2 x 54 | 120 | 0.084 | 1) | 200/1000 ²⁾ | < 0.20 ²⁾ | 50.0 ¹⁾ |

d₃ x l_p = 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. [mm] | Feed and friction force F _V [N] | Mass transported m _b [kg] |
|--------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|---|---|
| | Guide V _{max} [m/min] | Drive V _{max} [m/min] | I _Y [cm ⁴] | I _Z [cm ⁴] | | | |
| KE2.4...Z... | 300 | ³⁾ | 32.7 | 282.9 | 5700 | 40 | 2.24 |

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

⁴⁾ Longer strokes on request

| Compact unit Type | Maximum permissible forces [kN] | | | | Maximum permissible torques [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...Z... | 70 | 70 | 36 | 36 | 2120 | 1926 | 1820 | 1180 | 1542 | 1542 |

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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