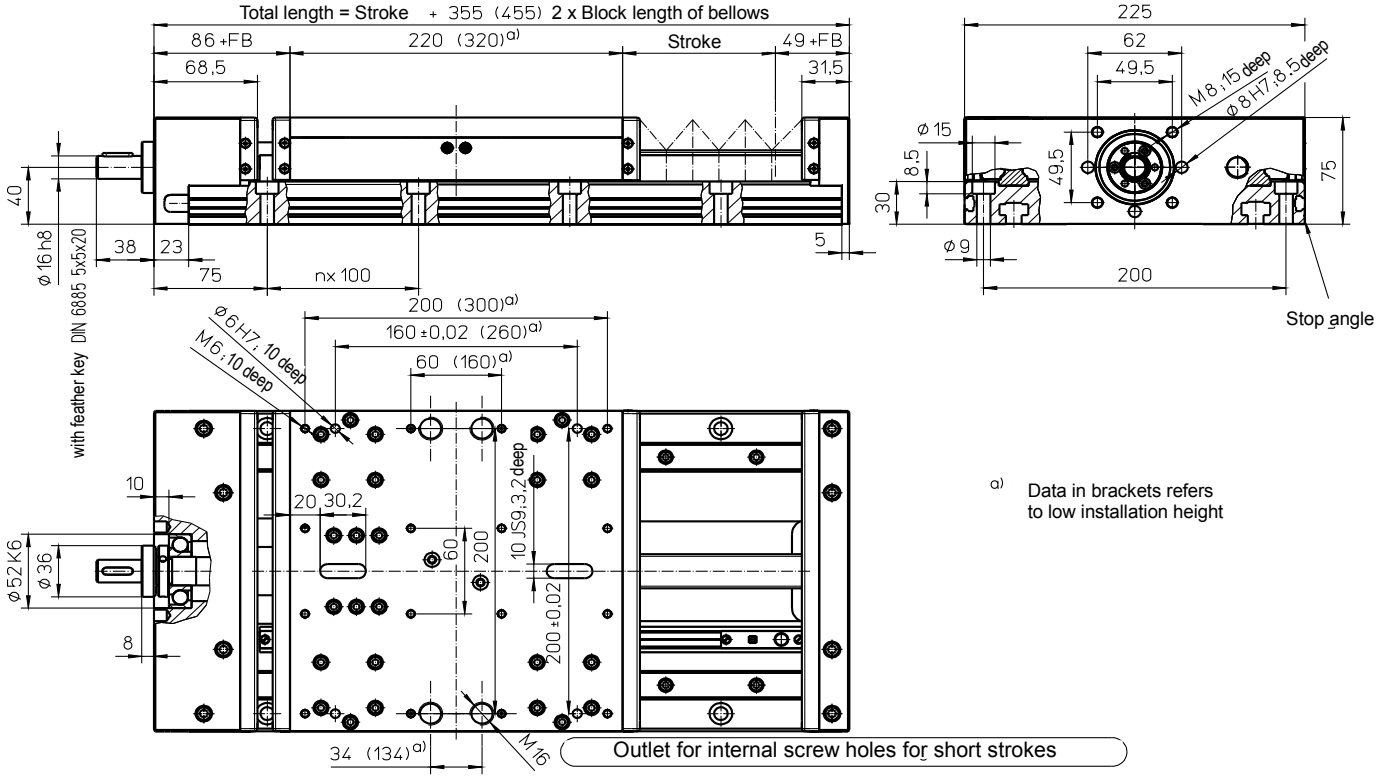
Linear Table **Alpha 20-B-225**

HSB-alpha®

with ball screw (KGT) or trapezoidal screw (TGT) and double linear guide (SSS)

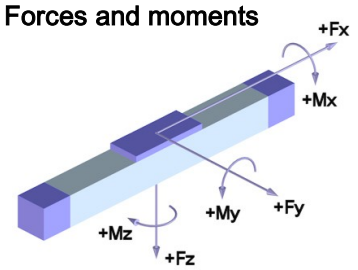


a) Data in brackets refers to low installation height

Weights	SSS
Basic length without stroke:	17.60 kg
100 mm stroke:	2.70 kg
Entire carriage 220 mm:	6.20 kg
Entire carriage 320 mm:	9.00 kg
Max. total length:	2000 mm

Technical Data	SSS
Max. total speed:	1.25 m/s
Max. acceleration:	20 m/s²
Repeat accuracy:	± 0.03 mm (KGT)
Idle torque:	1.20 Nm

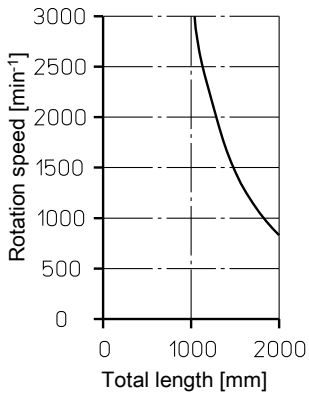
Forces and moments



	SSS
Forces	Dynamic [N]
F_X	6000
F_Y	5000
F_Z	58000
$-F_Z$	40000
Moments	Dynamic [Nm]
M_X	4000
M_Y	3000 (4000)
M_Z	1200 (1700)

Data in brackets refers to long carriage (320)

Drive element	KGT	TGT
Max. rotation speed:	3000 min^{-1}	1500 min^{-1}
Diameter:	25 mm	24 mm
Pitch:	5 / 10 / 25 mm	5 / 10 mm
Moment of inertia:	2.25 •10^{-4} kgm²/m	



Calculation of block length of bellows (FB)

(Stroke + 17) / 28 = Number of pleats

Number of pleats • 4 – 17 = Block length of bellows (FB)

(Number of pleats • 4 – 10 with stroke < 250 mm)

Example for stroke of 550 mm:

(550 mm + 17) / 28 = 20.25 => **21** pleats (rounded up)

21 • 4 – 17 = 6 **7** mm simple block length (FB)