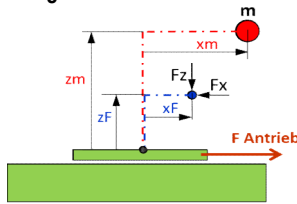


customer:		project name or number:		date:	
offer No:		processor:		version:	

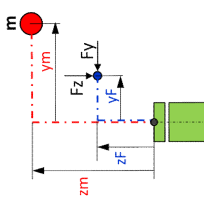
**position of the axes in space**

angle A = 0°



**position of the axes in space**

angle B = 90°



**position of payload to center of carriage**

payload (mass m)		xm	110 mm
m = 12,5 kg		ym	275 mm
		zm	10 mm
<b>additional acting force</b>		<b>position of force application point to center of carriage</b>	
in direction X	0 N	xF=	0 mm
in direction Y	0 N	yF=	0 mm
in direction Z	0 N	zF=	0 mm

**data of selected standard axis**

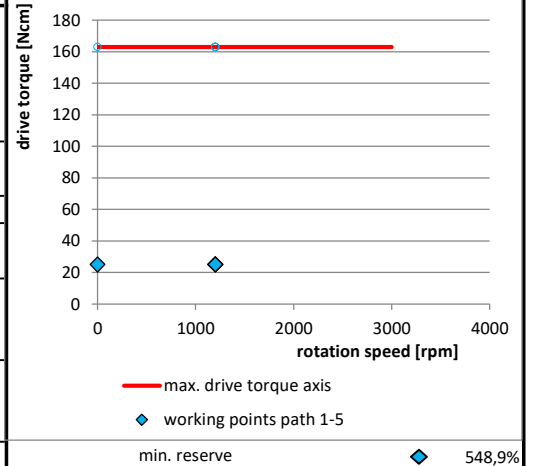
**HT100S005C-S**

max. stroke length	2676 mm
typical payload	40 kg
repeatability	0,02 mm
max. speed	0,25 m/s
max. acceleration	15 m/s²
max. drive torque axis	195 Ncm
feed per revolution	5 mm
max. feed force	2449,06 N
idle torque	50 Ncm
effective radius	0,80 mm
moving mass (without payload)	1,06 kg
rotatory Inertia	0,26 kgcm²
efficiency	0,9 %
Fy dyn max on carriage	3350 N
Fz dyn max on carriage	5340 N
Mx dyn max	139 Nm
weight of axis (0-stroke)	4,02 kg
weight of axis (per m stroke)	7,85 kg
service life axis	6000 km

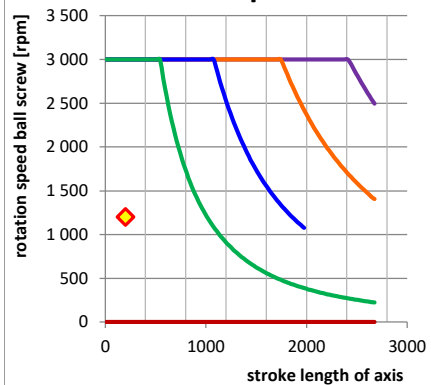
**recommended axes data out of application**

<b>selected stroke length</b>	<b>200 mm</b>
<b>payload of application m =</b>	<b>12,5 kg</b>
max. speed in movement profile	0,1 m/s
max. acceleration in movement profile	0,10 m/s²
max. acting drive torque at axis	25,12 Ncm
max. resulting feed force	315,67 N
max. rotation speed of movement profile at axis	1200 1/min
total moving mass	13,56 kg
total rotatory inertia axis	0,26 kgcm²
total translatory moment of inertia axis	0,09 kgcm²
max acting force Fy	99,13 N
max acting force Fz	60,27 N
max acting moment Mx	6,16 Nm
total mass of axis (including motor)	7,06 kg
theoretical life of guiding	>50.000 km
theoretical life of ballscrew	>50.000 km

**drive torque axis**



**critical speed**

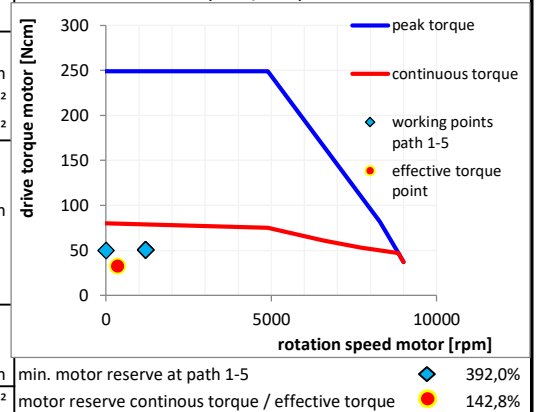


**motordata out of application**

**Schneider BSH0552T (230V / 6000)**

max drive torque motor	249 Ncm
max rotation speed motor	9000 1/min
rotatory inertia of motor	0,093 kgcm²
weight of motor	1,47 kgcm²
<b>working points path 1-5</b>	
max. required motor torque	50,61 Ncm
max. motor rotation speed of movement profile (r1)	1200 1/min
<b>effective torque point</b>	
effective torque at average rotation speed	32,75 Ncm
average rotation speed in application	342,8571 1/min
total acting moment of inertia at motorshaft	0,44 kgcm²
factor inertia (FI)	3,77

**selected drive: BSH0552T (230V / 6000)**



number of recommended Screw supports: ----> 0

**movement profile**

