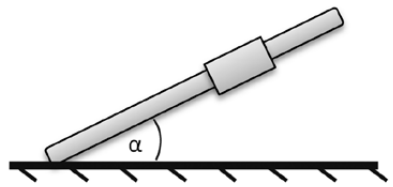
Project Planning Sheet
Ballscrew

HIWIN®
Motion Control & Systems

Customer data	
Company:	Contact person:
Project:	

Mounting position	System parameters		
	Nut type:		
	Tolerance class: T5 ☐ T7 ☐ Other ☐ _____		
	Ballscrew diameter	d_s	[mm]
	Lead	P	[mm]
	Total length	l_g	[mm]
	Load	m	[kg]
	Thread length	l_s	[mm]
	Friction force	F_R	[N]
	Standard (axial play) ☐ free of play ☐ preload ☐ _____ %		
	Other information:		

α = 0° horizontal ☐
α = 90° vertical ☐
α = ____°

Type of bearing	Lubrication	Operating temperature	
Fixed – Fixed ☐	Oil ☐	min. _____ °C	max. _____ °C
Fixed – Supported ☐	Grease ☐	**Special operating conditions** (e.g. dust, fluids, vibrations)	
Supported – Supported ☐			
Fixed – Free ☐			

Cycle data

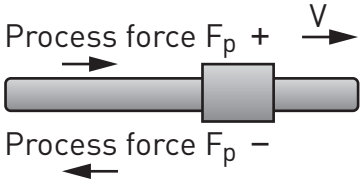
Phase n	Direction of motion, see (1)	Process force (±) F_P [N], see (2)	Acceleration/deceleration a [m/s²]	Rotation speed [1/min] n_1	Rotation speed [1/min] n_2	Time slice* [%]
1						
2						
3						
4						
5						
6						
7						
8						
9						

* without downtime periods

Way of the motion sequence described above	$l_{zyk.}$ =	[mm]
Total travel time	$t_{zyk.}$ =	[s]
Max. velocity	v_{max} =	[m/s]
Other information:		

Account the sign

(2)



(1) Direction of motion: left, right, up, down

Operation time			Required lifetime	
Cycles/hour [z/h] =	1-shift-operating	☐	Cycles [z]	L_z =
	2-shift-operating	☐	Kilometers [km]	L_{km} =
Working days/year [d/y] =	3-shift-operating	☐	Years [y]	L_y =

Other notes

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