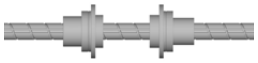
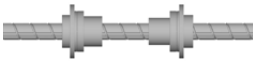
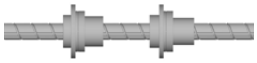
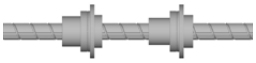
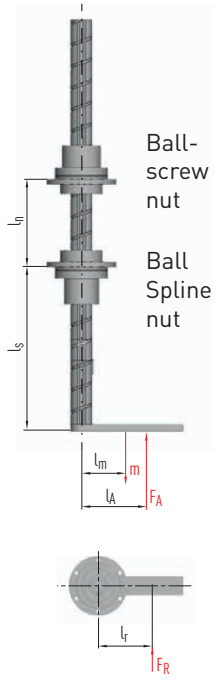
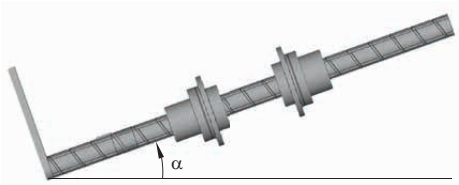
Project Planning Sheet
Ball Spline

HIWIN®

Customer data	
Company:	Contact person:
	Department:
	Phone:
Project:	Fax:
	Email:

System parameters				
Feature	**Option**			
Specification:	☐ SP16 ☐ SP20 ☐ SP25 ☐ SP32			
Type:	 ☐ FB			
Shaft Type:	☐ Solid Shaft ☐ Hollow Shaft			
Shaft Accuracy:	**FB**			
	☐ H (high)			
Flange direction:	☐ A Ballscrew nut Ball Spline nut  Flange of Ball Spline nut and Ballscrew nut point inwards	☐ B Ballscrew nut Ball Spline nut  Flange of Ball Spline nut and Ballscrew nut point outwards to the respective spindle end	☐ C Ballscrew nut Ball Spline nut  Flange of Ball Spline nut and Ballscrew nut point to the screw end of the threaded side	☐ D Ballscrew nut Ball Spline nut  Flange of ball spline nut and ballscrew nut point to the spindle end of the longitudinal groove side/ball spline side
Total length of the shaft:	l		[mm]	
Groove length:	l_1		[mm]	
Thread length:	l_2		[mm]	
Moved mass:	m		[kg]	
Distance to center of mass:	l_m		[mm]	
Initial position:	l_s		[mm]	
Distance of the nuts:	l_n		[mm]	
Installation position:	α = 0° (horizontal) α = 90° (vertical) α = _____°			

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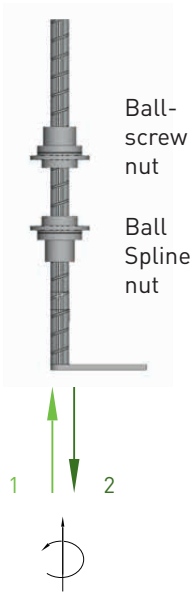
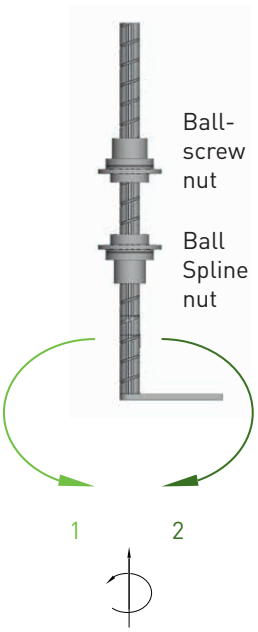
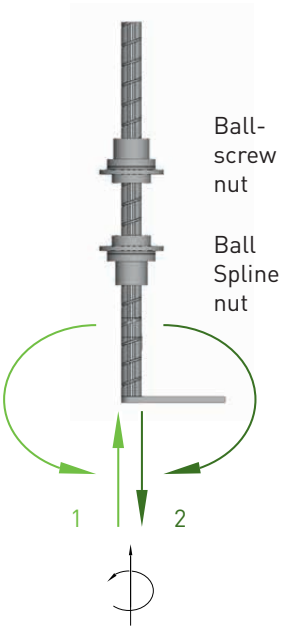
Lubrication	Operating temperature	
Oil ☐ Grease ☐	min. _____ °C	max. _____ °C
	Special operating conditions (e.g. dust, fluids, vibrations)	

Cycle data

Phases	Type of movement & direction	Axial load		Radial load		Time	Rotation angle	Stroke path
		Force	Lever arm	Force	Lever arm			
		(+/-) F_A [N]	L_A [mm]	(+/-) F_R [N]	L_R [mm]	[s]	[°]	[mm]
1								
2								
3								
4								
5								
6								
7								
8								
9								

Overview: Possible types of movement and directions

Type of movement	Stroke movement	Rotation	Stroke & Rotation (Screw movement)
Direction of movement	Option 1: Stroke upwards Option 2: Stroke downwards	Option 1: Rotation right Option 2: Rotation left	Option 1: Stroke upwards + Rotation right Option 2: Stroke downwards + Rotation left
			

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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