PROJECT PLANNING SHEET

DATORKER® strain wave gearbox

Customer data	
Company:	Processed by:
Technical consultant:	Date:
Purchasing consultant:	Project name:

Project plan (current state of project/schedule/quantity/aimed price)

Application (Sector, machine, application, ambient conditions, sketch)

1. Case: Competitive product is available	
Manufacturer:	
Product code:	
1.1 Documents are available	
Drawing	☐
Data sheet	☐
1.2 If available, external motor data	
Drawing	☐
Data sheet	☐

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Case 2: HIWIN DATORKER needs to be calculated					
2.1 input shaft(s)					
Oldham coupling O	Hollow shaft H	Solid shaft J	Flat E	Rigidity R	Quick Installation Q
☐	☐	☐	☐	☐	☐
Comment:					
2.2 Series					
	Standard	Heavy load	Thin	Lightweight	
	☐	☐	☐	☐	
Comment:					
2.3 Output bearing					
	None	Standard	Reinforced		
	☐	☐	☐		
2.4 Sealing					
	Yes	No			
	☐	☐			
Comment:					
2.5 Operating conditions					
Coating	Yes	No			
	☐	☐			
Special environmental conditions (dust, vibrations, liquids):					
2.6 Motor data					
Motor manufacturer:	HIWIN	External motor	Type code:		
	☐	☐			
Motor flange:	Yes	No			
	☐	☐			
Gearbox only	Gearbox + motor unassembled		Gearbox + motor assembled		
☐	☐		☐		

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To be completed in all cases

Sizing data
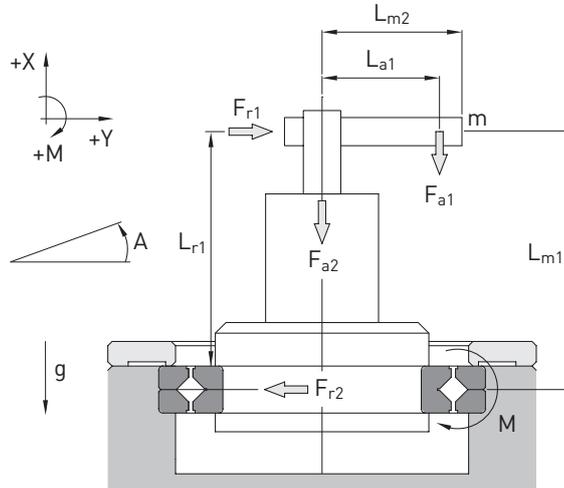
Angle:	A _____ °	
Mass:	_____ kg	
Distance between masses:	L_{m1} _____ mm	L_{m2} _____ mm
Mass inertia:	I _____ kg*m^2	
Axial force 1:	F_{a1} _____ N	
Lever 1:	L_{a1} _____ mm	
Axial force 2:	F_{a2} _____ N	
Radial load 1:	F_{r1} _____ N	
Lever 2:	L_{r1} _____ mm	
Radial load 2:	F_{r2} _____ N	
Tilting moment:	M _____ Nm	
Temperature:	T _____ °C	

Cycle description of rotary motion (travel distance, time, speed, acceleration and non-productive times (pauses, gripping times, etc.))
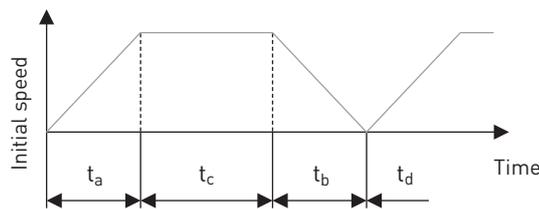
Travel no.	Rotation angle [n or °]	Positioning time [s]	N_{max} [1/min]	t_a [s]	t_b [s]	t_c [s]	Pause t_d [s]	Additional torques [Nm]
1								
2								
3								
4								
5								
6								

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Optional sketch