

Rothe Erde® Slewing Bearings Questionnaire



Company _____

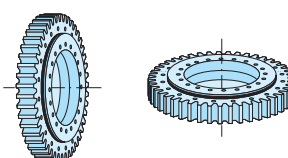
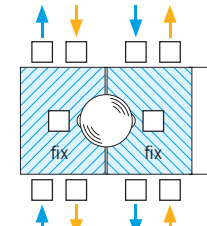
Name _____ Department _____

Address _____ Phone _____

_____ e-mail _____

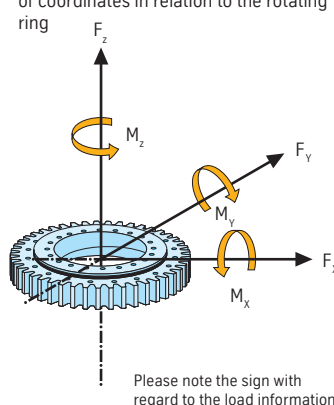
Country _____ Date _____

Project name _____

Application	Axis of rotation <input type="checkbox"/> horizontal <input type="checkbox"/> vertical <input type="checkbox"/> alternating 	Application of load (please put a cross at the applicable point) 
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Movement <input type="checkbox"/> positioning only <input type="checkbox"/> slewing <input type="checkbox"/> rotation	Slewingrange _____ [°]	No. of revolutions [min ⁻¹] normal maximal
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Bearing loads

Load information according to system of coordinates in relation to the rotating ring			max. working load	max. test load e.g. 25% overload condition	Extreme load e.g. shocks or out of operation	
	Axial loads	F_z				[kN]
	Radial loads	F_x				[kN]
		F_y				[kN]
	Tilting moment	M_x				[kNm]
		M_y				[kNm]
	Bearing turning torque	M_z normal				[kNm]
M_z max.					[kNm]	
Bearing in various load situations		<input type="checkbox"/> rotating	<input type="checkbox"/> rotating	<input type="checkbox"/> rotating		
		<input type="checkbox"/> stationary	<input type="checkbox"/> stationary	<input type="checkbox"/> stationary		

No. of drives _____ Please mark the positions of the drives in sketch (Appendix B)

Gear without external internal

Existing or chosen bearing per drawing No.: _____

For continuous rotation, variable and B10 life requirements, please complete annex A. Annex A is enclosed.

Remarks:
 1. e.g. special environmental conditions as there are corrosive media, dirt, temperatures others than standard (-20°C up to +60°C) etc.
 2. e.g. special bearing dimensioning with regard to precisions, acceptance conditions, material testings, dimensions etc.

Please fully complete this form. Incomplete information will delay processing and impede profitable technical preparation.

Individual technical consultation required. Please call for appointment.

Date _____

Rothe Erde[®] Slewing Bearings Questionnaire - Annex A



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Load case / description	Axial load	Radial load		Tilting moment		Bearing turning torque	Speed	Operating time
	F_z [kN]	F_x [kN]	F_y [kN]	M_x [kNm]	M_y [kNm]	M_z [kNm]	n [min ⁻¹]	[%]
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

For continuous rotation:
Required B10 life min. _____ hours at average _____ rpm.
For slewing:
Required service life min. _____ slewing cycles with angle of +/- _____ degrees, or _____ full load revolutions on the basis of service life.

Date _____

Rothe Erde[®] Slewing Bearings Questionnaire - Annex B



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Gearing geometry		<input type="checkbox"/> External gearing	<input type="checkbox"/> Internal gearing	<input type="checkbox"/> Spur gearing	<input type="checkbox"/> Helical gearing
		Pinion		Gear ring	
Gear size m					[mm]
Pressure angle α^*					[degrees]
Helix angle β^{**}					[degrees]
right / left hand orientation **					
Number of teeth z					
Addendum modification xm					[mm]
Addendum reduction km					[mm]
Tooth face width b					[mm]
Quality					
Pinion adjustable (Please include pinion drawing.) <input type="checkbox"/> yes <input type="checkbox"/> no					
Arrangement of drives:		Load information according to system of coordinates in relation to the			
Pinion	Pos. [°]				
1					
2					
3					
4					
5					
6					
Position of pinions <input type="checkbox"/> fix <input type="checkbox"/> rotating					
Further details					

Date

* If different from 20 degrees
 ** For helical gear only