



rothe erde® slewing bearings/slew drives

Questionnaire

thyssenkrupp

Further information <https://www.thyssenkrupp-rotheerde.com/en/products>

Company _____

Contact person _____

Street _____ Phone _____

Town/postcode _____ E-mail _____

Country _____ Date _____

Project name _____

New design Yes No Existing/pre-selected drawing number _____

Operating conditions

Application _____

Axis of rotation
 Horizontal Vertical Alternating

Supporting load application
 Supporting load application
(No tensile load on the screws by the axial loads; please indicate deviating introduction of load or mounting conditions)

Product category
 Slewing bearing
 Slew drive

Positioning only Slewing motions Continuous motions (Permissible only for slewing bearings)

Slewing range +/- [°] No. of revolutions normal [min⁻¹] No. of revolutions maximum [min⁻¹]

Bearing loads (For lifetime requirements please use annex A)

Load information according to coordinate system in relation to the rotating ring

(Please only use simultaneous loads per load case)	Max. working load	Max. test load e.g. 25% overload condition	Extreme load e.g. shocks or out of operation
Axial load F_z			[kN]
Radial loads F_x F_y			[kN]
Tilting moments M_x M_y			[kNm]
Bearing turning torque M_z normal M_z max.			[kNm]
(Bearing in various load situations, *permitted only for slewing bearings)	<input type="checkbox"/> Rotating*/slewing <input type="checkbox"/> Stationary	<input type="checkbox"/> Rotating*/slewing <input type="checkbox"/> Stationary	<input type="checkbox"/> Rotating*/slewing <input type="checkbox"/> Stationary

(Please note the sign with regard to the load data)

Gearing (No specification required for slew drives, for several drives please fill in annex B)

No. of drives _____ Gear position on slewing bearing Without External Internal

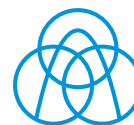
Remarks

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

Requested quantity: _____ Requested date of delivery: _____

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Questionnaire | Annex A - Lifetime



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Load case/description <small>(Please only apply simultaneous loads per load case)</small>	Axial load	Radial loads		Tilting moments		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								
								Total 100%

For continuous rotation (Permitted only for slewing bearings)

Required B10 life

min. hours at average rpm.

For slewing motions

Required service life

min. slewing cycles with angle of +/- [°]

or full load revolutions on the basis of service life.



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Questionnaire | Annex B - Gearing

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Only required for slewing bearings requests

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 (If different from 20°)	α				[°]
Helix angle (For helical gear only)	β				[°]
Right/left hand orientation (For helical gear only)					
Number of teeth	z				
Addendum modification	xm				[mm]
Addendum reduction	km				[mm]
Tooth face width	b				[mm]
Quality					
Pinion adjustable <input type="checkbox"/> Yes <input type="checkbox"/> No (Please attach pinion drawing if available)					
Arrangement of drives					
Pinion	Position [°]				
1					
2					
3					
4					
5					
6					
Position of pinions <input type="checkbox"/> Fix <input type="checkbox"/> Rotating					

Further details