

Technical requirements – Slewing ring



Please fill in the form and return to:
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 E-Mail: slewing.rings@imo.de
 Please note: The completed pdf-document is saveable with the software Adobe Reader XI from company Adobe System Inc., San Jose CA 95110, USA

1. Contact details

Company		Homepage	
Contact person		eMail	
Street		Phone	
ZIP, City		Fax	
Country			

2. Application description (please include a drawing)

Is a detailed specification available? (Please countercheck them with this sheet). Please briefly describe the application.

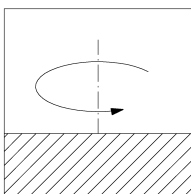
New design ? Yes No Existing type/drawing:

What needs to be taken into account? Which problems appeared? Specific requirements for the application?

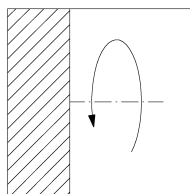
Operating temperature?	Minimum	<input type="text"/>	°C	Normal	<input type="text"/>	°C	Maximum	<input type="text"/>	°C
Survival temperature (out of operation)?	Minimum	<input type="text"/>	°C				Maximum	<input type="text"/>	°C
Are special seal required?	<input type="radio"/> No			<input type="radio"/> Yes	against?	<input type="text"/>			
Are test reports required?	<input type="radio"/> No			<input type="radio"/> Yes	which?	<input type="text"/>			z.B. 3.1 acc. DIN 10204, ...
Are acceptances required?	<input type="radio"/> No			<input type="radio"/> Yes	which?	<input type="text"/>			z.B. 3.2 acc. DIN 10204, ...
Are standards / certifying authorities to be considered?	<input type="radio"/> No			<input type="radio"/> Yes	which?	<input type="text"/>			z.B. Lloyds, ISO, DNV, GL, ...
Is a corrosion protection desired?	<input type="radio"/> No			<input type="radio"/> Yes	which?	<input type="text"/>			z.B. galvanization, painting, ...

Position of rotation axis

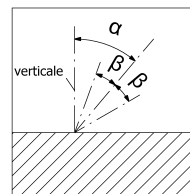
vertical



horizontal



alternating

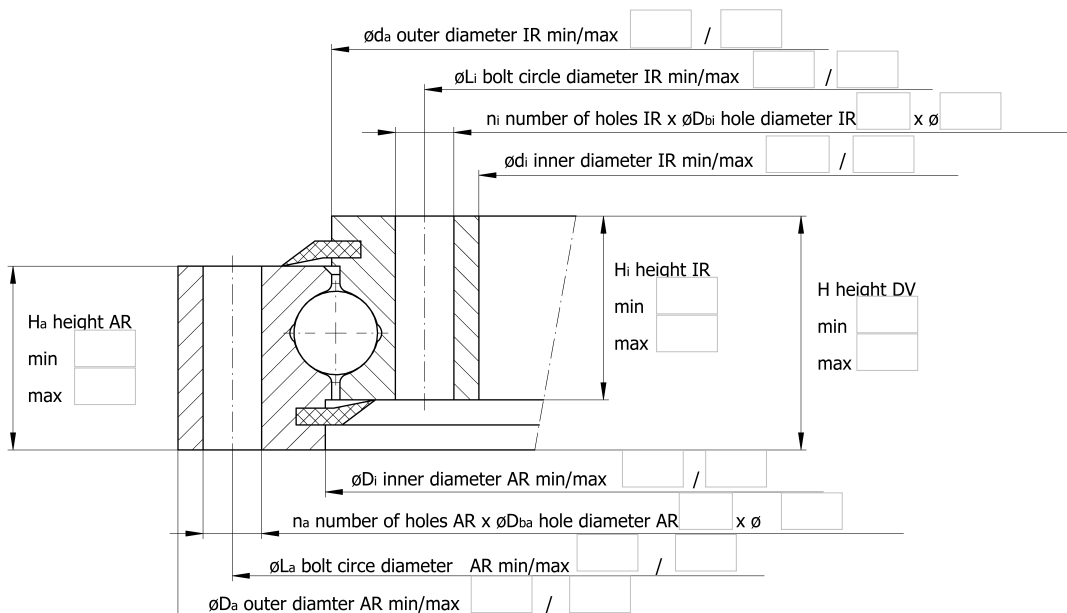


Position of the rotation axis

α °

Angle range

β \pm °



Technical requirements – Slewing ring



3. Gearing

If it is possible, please attach the drawing of the pinion.

What ring is geared?

- Inner ring
 Outer ring
 none

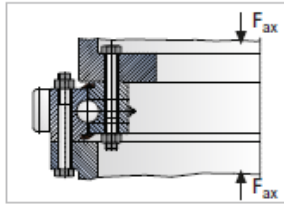
Module m
 helix angle beta
 Number of teeth z
 Tooth width b
 Profile modification factor x
 Addendum factor k

Slewing ring
 mm
 °
 -
 mm
 -
 -

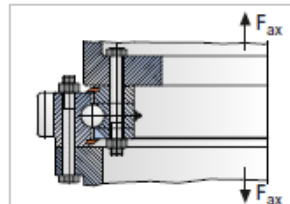
Center distance mm
 Number of power units / pinions -
 Pinion
 -
 mm
 -
 -

4. Loads

- Supporting axial load
 Suspending axial load
 Mixed axial load



Compressive force at inner and outer ring

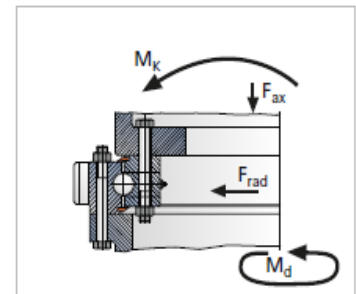


Tensile force at inner and outer ring

- Outer ring Compressive force Tensile force
 Inner ring Compressive force Tensile force

Please note: Load elevating application factors have to be included in the loads.

			Operating loads at the rotary motion		Loads at downtime	
			Normal	Maximum	Maximum	Extreme load
Axial load	F_{ax}	kN				
Radial load	F_{rad}	kN				
Tilting moment	M_k	kNm				
Circumferential toothing force	f_z	kN				
Torque at the slewing ring	M_d	kNm				
Duty cycle at operating loads	ED	%				



Rotational direction one way direction alternating

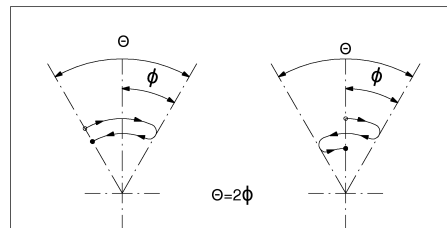
Continuous rotation without interruptions

Rotation speed (slewing ring)	n	1/min		
Max. rotation speed (slewing ring)	n_{max}	1/min		
Operating hours per year		h/a		

OR

Rotary motion with interruption → Description of the cycle:

Slewing angle	Θ	°		
Angular acceleration	a_b	rad/s ²		
Slewing time	t_{s1}	s		
Time of interruptions	t_{u1}	s		
Number of cycle per hour		1/h		
Operating hours per year		h/a		



Operating time years

5. Issue of offer

Foreseeable annual requirement units/year
 Desired delivery time weeks
 Desired offer date
 Planned lot size units/delivery
 Target price €/unit

6. Comments

Date

Name of the editor