

Slewing Rings(LYNBC)

Technical data for quotation processing

■ Customer

■ Application

Load cases	Operating Load		Test Load	Catastrophic Load (not in operation)
	normal	maxim		
F _a kN				
F _r kN				
M kNm				

■ Utilisation life(L_f)

■ Operating and ambient temperatures(min/max °C)

■ Mean operating hours per year (h/a)

■ Bearing temperature(max °C)

■ Operating time per day (h/d)

■ Which ring is heated more? (Inner ring or Outer ring)

Including rotating or swivel time (%)

Temperature difference between IR and OR (max °C)

■ Required life(L_r)

Tooth load	F _Z /M _{d1} /M _{d2}	Incl. shock factor
normal		
under acceleration(max)		
under deceleration(max)		

■ In shift operation

■ Number of pinions

Position of rotational axis:

Vertical/horizontal/alternating

from to

Number of pinions to each other

■ Axial load (supported/suspended)

Pinion gear teeth: m z

■ Speed(min⁻¹) normal max

x k

■ Special sealing required

Yes or No

Against

b

■ Do severe shocks or vibrations occur?

Yes or No

■ Design of pinion
(quenched and tempered/hardened/ground)



The bearing to be offered

■ must be interchangeable with the current solution

Drawing attached.

Deviations are nevertheless permissible; on

Tooth width

H

h

D_a

d

Centring is required.
Yes or No?

Tooth neck is required.
Yes or No?

Price based on pieces

Required delivery time

Required quotation date

Processed by

Date

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■ can be designed as new.

Slewing ring should have external gear teeth/
internal gear teeth/no gear teeth.

D_1 m

D_2 z

D_a x

d k

b

Probable requirement per year pieces

in call-off quantities of pieces

F_a	Kn	Dynamic axial bearing load
F_r	Kn	Dynamic radial bearing load
M	kNm	Dynamic tilting moment load
F_z	Kn	Permissible tooth force (fracture strength)
L_f		Life
H	mm	Mounting height
h	mm	Individual ring height
D_a	mm	Tip pitch circle diameter
d	mm	Inner diameter
D_1	mm	Mounting hole center diameter of outer ring
D_2	mm	Mounting hole center diameter of inner ring
b	mm	Tooth width
m	-	Module
z	-	Number of teeth
x	-	Addendum coefficient
k	-	Load distribution factor
Symbol	Unit	Definition

The values of stated symbols in the text have the above definition.