

C 31/710 KMB

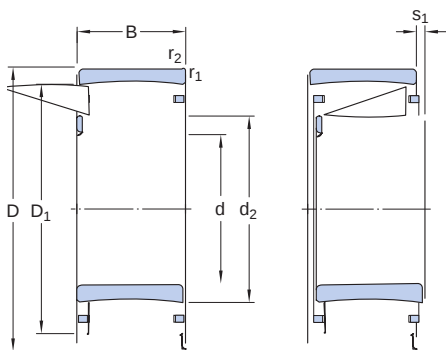
CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. Being NR Explorer bearings, they can accommodate higher load levels and provide significantly extended service life.



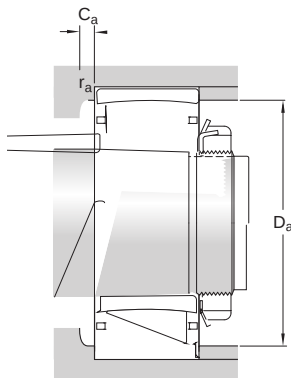
- Accommodate misalignment and axial displacement within the bearing
- High radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life
- Reduce noise and vibration levels

Bore type

Tapered 1:12



Dimensions		
d	710 mm	Bore diameter
D	1 150 mm	Outside diameter
B	345 mm	Width
d ₂	≈ 842 mm	Shoulder diameter of inner ring
D ₁	≈ 1 013 mm	Shoulder or recess diameter of outer ring
s ₁	max. 47.8 mm	Permissible axial displacement
r _{1,2}	min. 9.5 mm	Chamfer dimension



Abutment dimensions		
Da	min. 973 mm	Diameter of housing abutment
Da	max. 1 110 mm	Abutment diameter housing
Ca	min. 11.1 mm	Minimum width of space required in housing
ra	max. 8 mm	Radius of fillet

A negative value for C_a is theoretical.

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	13 400 kN
Basic static load rating	C_0	25 500 kN
Fatigue load limit	P_u	1 530 kN
Reference speed		340 r/min
Limiting speed		480 r/min
Misalignment factor	k_1	0
Internal clearance factor	k_2	0.111

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit