

C 2234

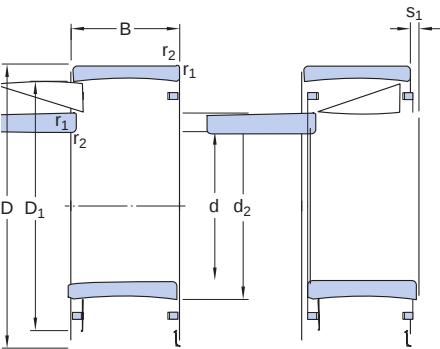
CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. Being NR Explorer bearings, they can accommodate higher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

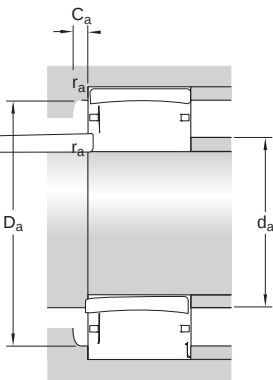
Bore type

Cylindrical



Dimensions

d	170 mm	Bore diameter
D	310 mm	Outside diameter
B	86 mm	Width
d ₂	≈ 209 mm	Shoulder diameter of inner ring
D ₁	≈ 274 mm	Shoulder or recess diameter of outer ring
s ₁	max. 16.4 mm	Permissible axial displacement
r _{1,2}	min. 4 mm	Chamfer dimension



Abutment dimensions

da	min. 187 mm	Diameter of shaft abutment
da	max. 233 mm	Diameter of shaft abutment
Da	min. 254 mm	Diameter of housing abutment
Da	max. 293 mm	Abutment diameter housing

C_a	min. 3 mm	Minimum width of space required in housing
r_a	max. 3 mm	Radius of fillet
A negative value for C_a is theoretical.		

Calculation data

AGA performance class	AGA Explorer	
Basic dynamic load rating	C	1 270 kN
Basic static load rating	C_0	1 630 kN
Fatigue load limit	P_u	146 kN
Reference speed		1 900 r/min
Limiting speed		2 600 r/min
Misalignment factor	k_1	0.114
Internal clearance factor	k_2	0.1

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