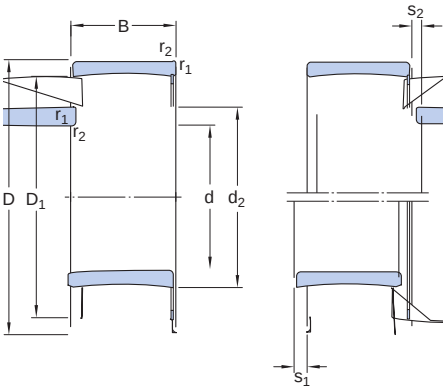
C 2209 V

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. This full complement bearing, which has a lower speed rating, uses as many rollers as possible, giving it the highest possible load rating.

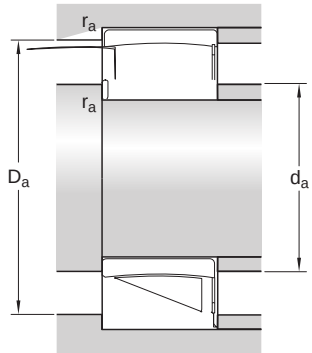
- Accommodate misalignment and axial displacement within the bearing
- Very high radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life

Bore type	Cylindrical



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_2	≈ 55.6 mm	Shoulder diameter of inner ring
D_1	≈ 73.1 mm	Shoulder or recess diameter of outer ring
s_1	max. 7.1 mm	Permissible axial displacement
s_2	max. 4.1 mm	Permissible axial displacement
$r_{1,2}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 52 mm	Diameter of shaft abutment
d_a	max. 69 mm	Diameter of shaft abutment
D_a	max. 78 mm	Abutment diameter housing
r_a	max. 1 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	110 kN
Fatigue load limit	P_u	12.9 kN
Limiting speed		4 300 r/min
Misalignment factor	k_1	0.095
Internal clearance factor	k_2	0.128

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