

C 4028 V

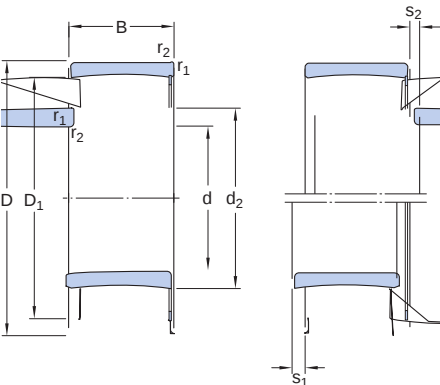


CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This full complement bearing, which has a lower speed rating, uses as many rollers as possible, giving it the highest possible load rating.

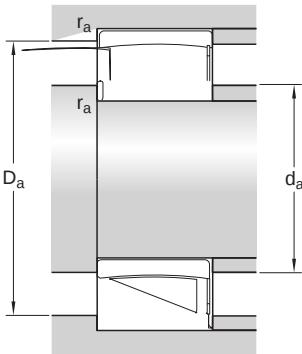
- Accommodate misalignment and axial displacement within the bearing
- Very high radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life

Bore type

Cylindrical



Dimensions		
d	140 mm	Bore diameter
D	210 mm	Outside diameter
B	69 mm	Width
d ₂	≈ 161 mm	Shoulder diameter of inner ring
D ₁	≈ 193 mm	Shoulder or recess diameter of outer ring
s ₁	max. 11.4 mm	Permissible axial displacement
s ₂	max. 5.9 mm	Permissible axial displacement
r _{1,2}	min. 2 mm	Chamfer dimension



Abutment dimensions		
d _a	min. 150 mm	Diameter of shaft abutment
d _a	max. 177 mm	Diameter of shaft abutment
D _a	max. 200 mm	Abutment diameter housing
r _a	max. 2 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	750 kN
Basic static load rating	C ₀	1 220 kN
Fatigue load limit	P _u	120 kN
Limiting speed		800 r/min
Misalignment factor	k ₁	0.115
Internal clearance factor	k ₂	0.097

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