

C 4120-2CS5V/C3GEM9

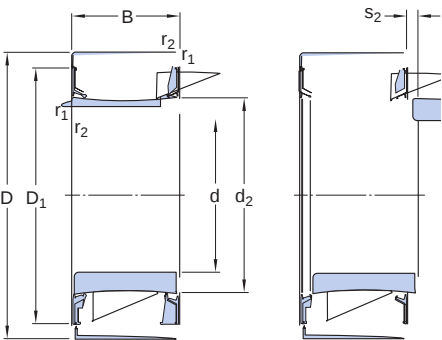
CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This bearing has a lower speed rating and is sealed to minimize the need for lubrication and extend service life.



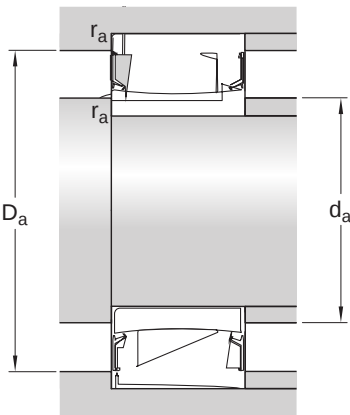
- Accommodate misalignment and axial displacement within the bearing
- High radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life
- Sealed for increased reliability

Bore type

Cylindrical



Dimensions		
d	100 mm	Bore diameter
D	165 mm	Outside diameter
B	65 mm	Width
d ₂	≈ 120 mm	Shoulder diameter of inner ring
D ₁	≈ 148 mm	Shoulder or recess diameter of outer ring
S ₂	max. 7.3 mm	Permissible axial displacement
r _{1,2}	min. 2 mm	Chamfer dimension



Abutment dimensions		
d _a	min. 111 mm	Diameter of shaft abutment
d _a	max. 120 mm	Diameter of shaft abutment
D _a	min. 125 mm	Diameter of housing abutment
D _a	max. 154 mm	Abutment diameter housing
r _a	max. 2 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	475 kN
Basic static load rating	C ₀	655 kN
Fatigue load limit	P _u	71 kN
Limiting speed		90 r/min
Misalignment factor	k ₁	0.09
Internal clearance factor	k ₂	0.125

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