

C 5918-2CS5V/C3

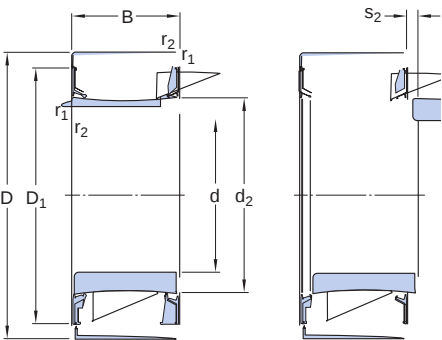
CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This bearing has a lower speed rating and is sealed to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

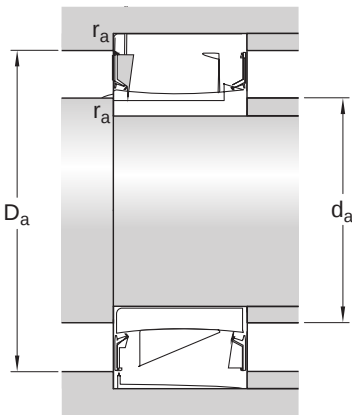
Bore type

Cylindrical



Dimensions

d	90 mm	Bore diameter
D	125 mm	Outside diameter
B	46 mm	Width
d ₂	≈ 102 mm	Shoulder diameter of inner ring
D ₁	≈ 113 mm	Shoulder or recess diameter of outer ring
S ₂	max. 4.5 mm	Permissible axial displacement
r _{1,2}	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 96 mm	Diameter of shaft abutment
d _a	max. 102 mm	Diameter of shaft abutment
D _a	min. 104 mm	Diameter of housing abutment
D _a	max. 119 mm	Abutment diameter housing
r _a	max. 1 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	224 kN
Basic static load rating	C ₀	400 kN
Fatigue load limit	P _u	45.5 kN
Limiting speed		110 r/min
Misalignment factor	k ₁	0.089
Internal clearance factor	k ₂	0.131

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