

C 4022 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	110 mm Bore diameter
	D	170 mm Outside diameter
	B	60 mm Width
	d ₂	≈ 126 mm Shoulder diameter of inner ring
	D ₁	≈ 150 mm Shoulder or recess diameter of outer ring
	s ₁	max. 12 mm Permissible axial displacement
	s ₂	max. 6.6 mm Permissible axial displacement
	r _{1,2}	min. 2 mm Chamfer dimension

	Abutment dimensions	
	d _a	min. 120 mm Diameter of shaft abutment
	d _a	max. 136 mm Diameter of shaft abutment
	D _a	max. 160 mm Abutment diameter housing
	r _a	max. 2 mm Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	500 kN
Basic static load rating	C ₀	800 kN
Fatigue load limit	P _u	85 kN
Limiting speed		1 200 r/min
Misalignment factor	k ₁	0.107
Internal clearance factor	k ₂	0.103

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