

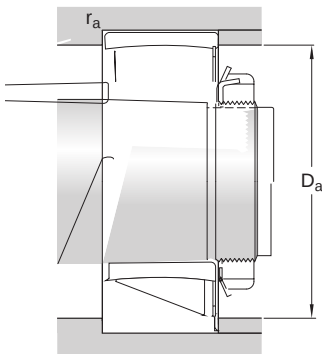
C 4024 K30V



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		Tapered 1:30	
		Dimensions	
d	120 mm	Bore diameter	
D	180 mm	Outside diameter	
B	60 mm	Width	
d ₂	≈ 140 mm	Shoulder diameter of inner ring	
D ₁	≈ 164 mm	Shoulder or recess diameter of outer ring	
s ₁	max. 12 mm	Permissible axial displacement	
s ₂	max. 5.2 mm	Permissible axial displacement	
r _{1,2}	min. 2 mm	Chamfer dimension	



Abutment dimensions		
D _a	max. 170 mm	Abutment diameter housing
r _a	max. 2 mm	Radius of fillet

Calculation data

AGA performance class	AGA Explorer	
Basic dynamic load rating	C	530 kN
Basic static load rating	C ₀	880 kN
Fatigue load limit	P _u	91.5 kN
Limiting speed	1 100 r/min	
Misalignment factor	k ₁	0.109
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