

C 3292 KMB/C084

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. Being NR Explorer bearings, they can accommodate higher load levels and provide significantly extended service life.



- Accommodate misalignment and axial displacement within the bearing
- High radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life
- Reduce noise and vibration levels

Bore type

Tapered 1:12



Dimensions		
d	460 mm	Bore diameter
D	830 mm	Outside diameter
B	296 mm	Width
d ₂	≈ 555 mm	Shoulder diameter of inner ring
D ₁	≈ 720 mm	Shoulder or recess diameter of outer ring
s ₁	max. 32.4 mm	Permissible axial displacement
r _{1,2}	min. 7.5 mm	Chamfer dimension



Abutment dimensions		
da	min. 492 mm	Diameter of shaft abutment
da	max. 554 mm	Diameter of shaft abutment
Da	min. 676 mm	Diameter of housing abutment
Da	max. 798 mm	Abutment diameter housing

C_a	min. 11 mm	Minimum width of space required in housing
r_a	max. 6 mm	Radius of fillet
A negative value for C_a is theoretical.		

Calculation data

AGA performance class	AGA Explorer	
Basic dynamic load rating	C	9 300 kN
Basic static load rating	C_0	15 000 kN
Fatigue load limit	P_u	1 000 kN
Reference speed		530 r/min
Limiting speed		750 r/min
Misalignment factor	k_1	0
Internal clearance factor	k_2	0.106

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