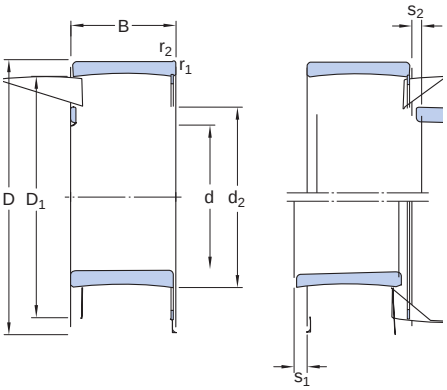
C 2216 KV

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.

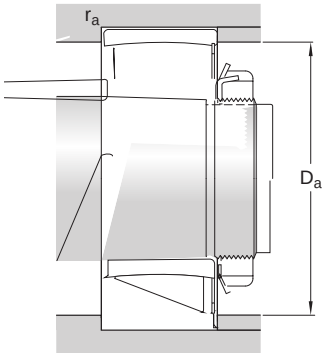
- Accommodate misalignment and axial displacement within the bearing
- Very high radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life

Bore type	Tapered 1:12



Dimensions

d	80 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
d_2	≈ 98.1 mm	Shoulder diameter of inner ring
D_1	≈ 125 mm	Shoulder or recess diameter of outer ring
s_1	max. 9.1 mm	Permissible axial displacement
s_2	max. 4.8 mm	Permissible axial displacement
$r_{1,2}$	min. 2 mm	Chamfer dimension



Abutment dimensions

D_a	max. 129 mm	Abutment diameter housing
r_a	max. 2 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	255 kN
Basic static load rating	C_0	305 kN
Fatigue load limit	P_u	34.5 kN
Limiting speed		2 000 r/min
Misalignment factor	k_1	0.104
Internal clearance factor	k_2	0.121

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