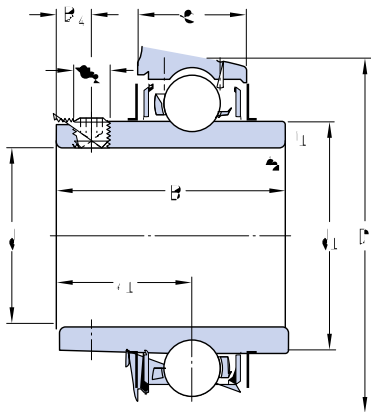


UC 309



Insert bearings are based on sealed deep groove ball bearings. This variant is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening two (set) screws on the inner ring, making it easy to mount.

- Designed for a constant and alternating rotation
- Quick and easy to mount onto the shaft
- Reduce noise and vibration levels



Dimensions		
d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	57 mm	Width of inner ring
C	29 mm	Width of outer ring
d ₁	≈ 63 mm	Outside diameter of inner ring
B ₄	10 mm	Distance face to thread centre
r _{1,2}	min. 2.5 mm	Chamfer dimension of inner ring
s ₁	35 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	52.7 kN
Basic static load rating	C ₀	32 kN
Fatigue load limit	P _u	1.34 kN
Limiting speed		3 750 r/min
		Limiting speed with shaft tolerance h6

Calculation factor	f_0	13
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Mounting information

Set screw	G_2	M10x1.25
Hexagonal key size for set screw	N	5.08 mm
Recommended tightening torque for set screw		16.5 N·m

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1, table 2
- Radial internal clearance: Standard inner ring, Other bearings

BEARING INTERFACES

- Shaft tolerances