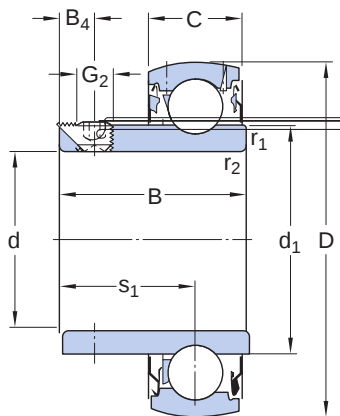


YAT 205-100



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

- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels



Dimensions		
d	25.4 mm	Bore diameter
D	52 mm	Outside diameter
B	27.2 mm	Width of inner ring
C	15 mm	Width of outer ring
d ₁	≈ 33.74 mm	Outside diameter of inner ring
B ₄	5 mm	Distance face to thread centre
r _{1,2}	min. 0.6 mm	Chamfer dimension of inner ring
s ₁	19.5 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN
Limiting speed		7 000 r/min
		Limiting speed with shaft tolerance h6

Calculation factor	f_0	14
--------------------	-------	----

Mounting information

Set screw	G_2	1/4-28 UNF
Hexagonal key size for set screw	N	3.175 mm
Recommended tightening torque for set screw		4 N·m

Associated products

Rubber seating ring		RIS 205
---------------------	--	---------

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

BEARING INTERFACES

- Shaft tolerances