

# YET 210 Insert bearing with an eccentric locking collar and narrow inner ring



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Insert bearings are based on sealed deep groove ball bearings. This variant is intended for use in applications where the direction of rotation is constant. It has a narrow inner ring extended on one side, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

- Designed for rotation in one direction
- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels

## Overview

## Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width, total	43.7 mm
Width, inner ring	30.2 mm
Width, outer ring	22 mm

## Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Limiting speed	4 000 r/min
Note	Limiting speed with shaft tolerance h6

## Properties

Retaining feature, inner ring	Eccentric collar
Bore type	Cylindrical
Rolling elements	Balls
Outer ring type	Spherical
Inner ring extension	On one side
Cage	Non-metallic
Rubber seating ring	Without
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact, standard

Lubricant

Grease

Relubrication feature

With

## Technical Specification



### Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B <sub>1</sub>	43.7 mm	Overall bearing width
B	30.2 mm	Width of inner ring
C	22 mm	Width of outer ring
d <sub>1</sub>	≈ 62.51 mm	Outside diameter of inner ring
d <sub>2</sub>	67.2 mm	Outside diameter of locking collar
B <sub>4</sub>	6.75 mm	Distance from side face to thread centre
r <sub>1,2</sub>	min. 1 mm	Chamfer dimension of inner ring
s <sub>1</sub>	32.7 mm	Distance from locking device side face to raceway centre

### Calculation data

Basic dynamic load rating	C	35.1 kN
Basic static load rating	C <sub>0</sub>	23.2 kN
Fatigue load limit	P <sub>u</sub>	0.98 kN
Limiting speed		4 000 r/min
		Limiting speed with shaft tolerance h6
Calculation factor	f <sub>0</sub>	14

### Mass

Mass	0.73 kg
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### Mounting information

Set screw	G <sub>2</sub>	M10x1
Hexagonal key size for set screw	N	5 mm
Recommended tightening torque for set screw		16.5 N·m

## Associated products

Rubber seating ring		RIS 210 A
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