

# YSA 210-2FK Insert bearing with tapered bore and adapter sleeve locking



## Insert bearing with tapered bore and adapter sleeve locking

Insert bearings are based on sealed deep groove ball bearings. This variant, with a tapered bore, is suitable for applications with both constant and alternating directions of rotation. It is locked with an adapter sleeve, enabling quick and easy mounting onto the shaft. Adapter sleeve needs to be ordered separately.

- 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	37 mm
Width, inner ring	37 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

### Properties

Retaining feature, inner ring	Adapter sleeve
Bore type	Tapered
Rolling elements	Balls
Outer ring type	Spherical
Inner ring extension	Symmetrically on both sides
Cage	Non-metallic
Rubber seating ring	Without
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal and flinger on both

sides

Sealing type	Contact, standard
Lubricant	Grease
Relubrication feature	With mm

## Technical Specification



### Dimensions

d	45 mm	Bore diameter of sleeve
D	90 mm	Outside diameter
B <sub>1</sub>	55 mm	Width of sleeve
B	37 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>3</sub>	70 mm	Outside diameter of lock nut
s <sub>1</sub>	30.75 mm	Distance from locking device side face to raceway centre
Value specified for s <sub>1</sub>		

### 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
Calculation factor	f <sub>0</sub>	14

### Mass

Mass	0.6 kg
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### Mounting information

Associated spanner	HN 10
Recommended tightening angle for lock nut	α 115 °

## Associated products

Rubber seating ring	RIS 210 A
Adapter sleeve	H 2310

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