

# FYJ 65 KFSquare flanged ball bearing unit with adapter sleeve locking, cast iron housing, JIS

## Square flanged ball bearing unit with adapter sleeve locking, cast iron housing, JIS

These square flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). They consist of an insert bearing, locked to the shaft with an adapter sleeve, which enables the bearings to operate at higher speeds and run more smoothly in applications where the direction of rotation is constant or alternating. The bearing is mounted in a cast iron housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement. The adapter sleeve is not included in the unit and should be ordered separately.

- Resist high levels of contamination
- Designed for high temperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

## Overview

## Dimensions

Shaft diameter	60 mm
Housing overall width	50 mm
Width, total	78.9 mm
Centre distance between bolt holes	149 mm
Bearing width, total	43.4 mm

## Performance

Basic dynamic load rating	57.2 kN
Basic static load rating	40 kN
Limiting speed	3 000 r/min

## Properties

Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Adapter sleeve ring
Bore type	Tapered
Rubber seating ring	Without

Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

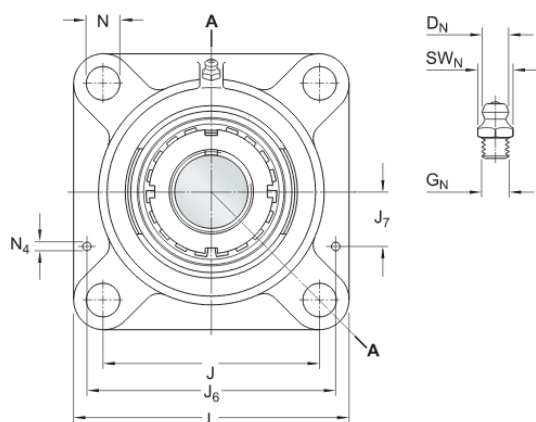
# Technical Specification

Order adapter sleeve separately	
Compliance with standard	JIS
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Without



## Dimensions

d	60 mm	Bore diameter
$d_1$	$\approx 82.5$ mm	Outer diameter of inner ring
$d_3$	85 mm	Outside diameter of lock nut
A	50 mm	Overall width
$A_1$	22 mm	Flange width
$A_3$	3.2 mm	Depth of centring recess
B	43.5 mm	Width of inner ring
$B_1$	43.4 mm	Overall bearing width
$B_1$	65 mm	Width of sleeve
$D_{b1}$	150 mm	Top external diameter
$D_{b2}$	152 mm	Base external diameter
$D_c$	161.9 mm	Diameter of housing centering recess
J	149 mm	Distance between attachment bolts
L	187	Overall length



	mm	
N	19 mm	Diameter of attachment bolt hole
s <sub>1</sub>	35.2 mm	Distance from locking device side face to raceway centre
T	78.9 mm	Overall unit width
Value specified for s <sub>1</sub>		

#### Threaded hole

R <sub>G</sub>	1/4-28 UNF	Housing thread for grease fitting
R <sub>1</sub>	29.5 mm	Axial position of the housing thread

#### Grease fitting

D <sub>N</sub>	6.5 mm	Diameter of head sphere of grease fitting
SW	7 mm	Hexagonal key size for the grease fitting
G <sub>N</sub>	1/4-28 SAE-LT	Thread of grease fitting

#### Dowel pins

J <sub>6</sub>	169 mm	Distance of dowel pins
J <sub>7</sub>	50.5 mm	Axial offset of dowel pins
N <sub>4</sub>	4 mm	Recommended diameter for dowel pins

## Calculation data

Basic dynamic load rating	C	57.2 kN
Basic static load rating	C <sub>0</sub>	40 kN
Fatigue load limit	P <sub>u</sub>	1.7 kN
Limiting speed		3 000 r/min

## Mass

Mass bearing unit	5.25 kg
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## Mounting information

Associated spanner		HN 13
Recommended lock nut tightening angle	$\alpha$	100 °
Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

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