

# 51320 Single direction thrust ball bearing



## Single direction thrust ball bearing

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enable interference fit

## Overview

### Dimensions

Bore diameter	100 mm
Outside diameter	170 mm
Height	55 mm

### Performance

Basic dynamic load rating	225 kN
Basic static load rating	570 kN
Reference speed	1 400 r/min
Limiting speed	1 900 r/min

### Properties

Axial load capability	Single-direction
Number of rows	1
Cage	Sheet metal
Housing washer type	Flat
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without

# Technical Specification



## Dimensions

d	100 mm	Bore diameter
D	170 mm	Outside diameter
H	55 mm	Height
$d_1$	≈ 170 mm	Outside diameter shaft washer
$D_1$	≈ 103 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer

## Abutment dimensions

$d_a$	min. 142 mm	Abutment diameter shaft
$D_a$	max. 128 mm	Abutment diameter housing
$r_a$	max. 1.5 mm	Fillet radius



## Calculation data

Basic dynamic load rating	C	225 kN
Basic static load rating	$C_0$	570 kN
Fatigue load limit	$P_u$	18.3 kN
Reference speed		1 400 r/min
Limiting speed		1 900 r/min
Minimum load factor	A	1.9

## Mass

Mass bearing (including seat washer where applicable)

4.95 kg

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