

# BEAM 020068 C-2RSHD Double direction angular contact thrust ball bearing for screw drives,

## super-precision, for bolt mounting Double direction angular contact thrust ball bearing for screw drives, super-precision, for bolt mounting

These double direction angular contact thrust ball bearings are well suited for screw drive applications, but are also beneficial in other applications, where reliable radial and axial support is required, together with extremely precise axial guidance of the shaft. The BEAM series bearings have an outer ring that is much thicker than with the BEAS series, and they are equipped with through holes for attachment bolts, which makes the mounting process simple.

- Accommodate radial loads, and axial loads in both directions
- Greased and sealed as standard
- Ready to mount
- Easy to relubricate

### Overview

### Dimensions

Bore diameter	20 mm
Outside diameter	68 mm
Height	28 mm
Contact angle	60 °

### Performance

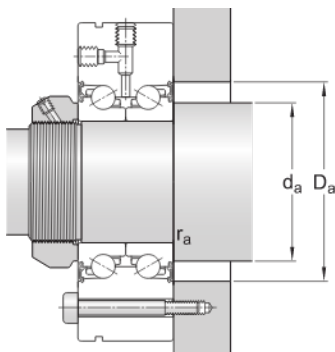
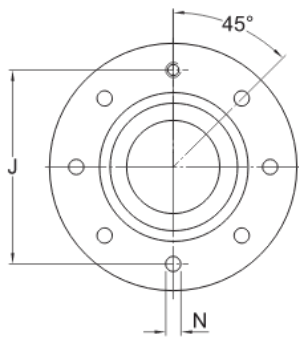
Basic dynamic load rating	27.5 kN
Basic static load rating	51 kN
Attainable speed for grease lubrication	3 800 r/min

### Properties

Axial load capability	Double-direction
Number of rows	2
Locating feature, bearing outer ring	Bolt holes
Housing washer type (double-row angular contact thrust ball bearings)	One-piece
Cage	Non-metallic
Single bearing, universally matchable, delivered individually	No
Sealing	Seal on both sides

Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

# Technical Specification



## Dimensions

d	20 mm	Bore diameter
D	68 mm	Outside diameter
H	28 mm	Height
d <sub>2</sub>	32.2 mm	Inner ring recess diameter
D <sub>2</sub>	43.2 mm	Outer ring recess diameter
H <sub>1</sub>	19 mm	Extraction groove position
r <sub>1,2</sub>	min. 0.3 mm	Chamfer radius
r <sub>3,4</sub>	min. 0.6 mm	Chamfer radius
a	73 mm	Distance pressure points
J	53 mm	Pitch diameter of holes for bolts
N	6.8 mm	Through hole for attachment bolts

## Abutment dimensions

d <sub>a</sub>	min. 25 mm	Abutment diameter shaft
D <sub>a</sub>	max. 43 mm	Abutment diameter housing
r <sub>a</sub>	max. 0.3 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	27.5 kN
Basic static load rating	$C_0$	51 kN
Fatigue load limit	$P_u$	1.9 kN
Attainable speed		3 800 r/min
Contact angle	$\alpha$	60 °
Preload		1 650 N
Frictional moment		0.3 N·m
Axial stiffness for preload A (sets of two brgs back-to-back or face-to-face)		680 N/ $\mu$ m
Static moment stiffness		140 N·m/mrad

## Mass

Mass bearing		0.58 kg
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## Mounting information

Required attachment bolt size (DIN 912)		M6
Number of attachment bolts		7
Angle between holes in outer ring (Pitch)	$\alpha$	45 °

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