

Image may differ from product. See technical specification for details.

BSD 3062 CGB-2RS1

Super-precision sealed single direction angular contact thrust ball bearing

These sealed super-precision ball bearings offer very high running accuracy and are well suited for screw drive applications. They are also beneficial in other applications, where safe radial and axial support is required, together with extremely precise axial guidance of the shaft. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs and grease consumption low.

- Very high running accuracy
- High axial stiffness
- High axial load carrying capacity in one direction
- Universally matchable
- Well suited for screw drive applications

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Height	15 mm
Contact angle	62 °

Performance

Basic dynamic load rating	28.5 kN
Basic static load rating	71 kN
Attainable speed for grease lubrication	8 000 r/min

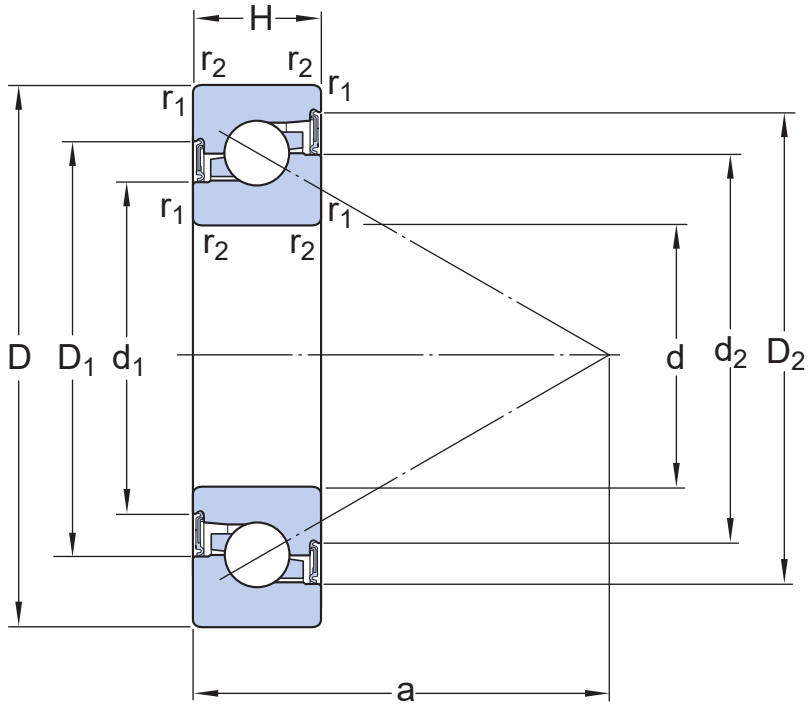
Properties

Axial load capability	Single-direction
Number of rows	1
Locating feature, bearing outer ring	Without
Cage	Non-metallic
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Relubrication feature	Without
Indicative carbon footprint for new product	0.78 kg CO_2e

Logistics

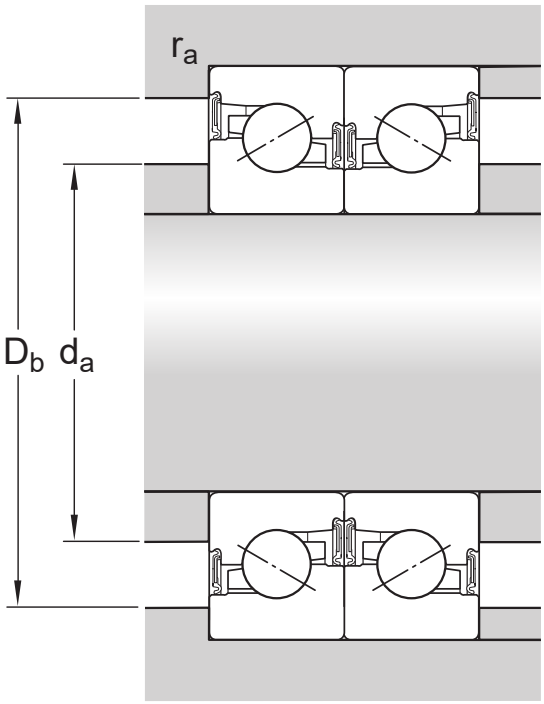
Product net weight	0.211 kg
eClass code	23-05-08-03
UNSPSC code	31171507

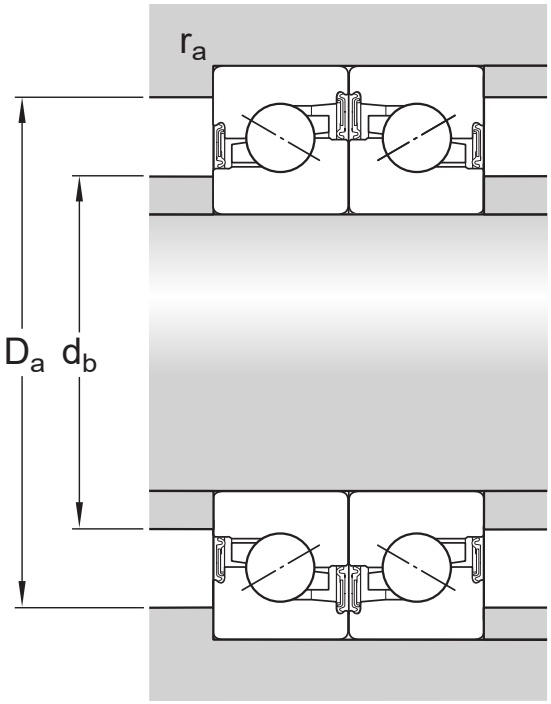
Technical specification



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
H	15 mm	Height
d_1	39.9 mm	Shoulder diameter
d_2	46 mm	Shoulder diameter
D_1	48.8 mm	Shoulder/recess diameter
D_2	55.3 mm	Shoulder/recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension
a	51 mm	Distance to pressure point





Abutment dimensions

d_a	min. 38 mm	Diameter of shaft abutment
d_b	min. 38 mm	Diameter of shaft abutment
D_a	max. 57 mm	Diameter of housing abutment
D_b	max. 57 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	71 kN
Fatigue load limit	P_u	2.65 kN
Attainable speed for grease lubrication		8 000 r/min
Contact angle	α	62 °
Preload		4 300 N
Frictional moment		0.22 N·m
Axial stiffness for preload A (sets of two brgs back-to-back or face-to-face)		1 110 N/µm
Maximum axial load carrying capacity	F_a	max. 22.6 kN
Reference grease quantity	G_{ref}	2 cm^3

Tolerances and clearances

PRODUCT DETAILS

- Tolerances: table
- Bearing preload
- Design considerations: shafts, housings

PRINCIPLES OF BEARING SELECTION AND APPLICATION

- Chamfer dimensions
- Speed dependent initial grease fill → Initial grease fill

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