

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

7004 CDGB/HCP4A

Super-precision, high-capacity, universally matchable single row angular contact ball bearing

These super-precision, high-capacity, single row angular contact ball bearings accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They are designed to accommodate heavy loads at relatively high speeds under low to moderate operating temperatures. Being universally matchable, they can be used together in arrangements to provide effective load sharing, within a predetermined preload range, without the use of shims or similar devices.

- Very high running accuracy
- Very high load carrying capacity
- Relatively high speed and stiffness
- Universally matchable

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	42 mm
Width	12 mm
Contact angle	15 °

Performance

Basic dynamic load rating	9.04 kN
Basic static load rating	4.3 kN
Attainable speed for grease lubrication	50 000 r/min
Attainable speed for oil-air lubrication	80 000 r/min
Note	Refer to catalogue data or contact SKF for the attainable speeds

Properties

Contact type	Normal contact (two-point contact)
Number of rows	1
Ring type	One-piece inner and outer rings
Design	High-capacity D
Universal matching bearing	Yes, back-to-back (<>), face-to-face (><) or tandem (>>)
Matched arrangement	No
Matched condition (axial clearance/ preload)	Measuring load, class B
Tolerance class	P4A
Material, bearing	Hybrid (ceramic balls)
Coating	Without
Sealing	Without
Lubricant	None
Indicative carbon footprint for new product	0.22 kg CO_2e

Logistics

Product net weight	0.059 kg
eClass code	23-05-08-03
UNSPSC code	31171531

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