



SKF 7210 CD/P4ADGA

Matched set of two super-precision, high-capacity, D design, single row angular contact ball bearings

These matched sets of two super-precision, high-capacity, D design, single row angular contact ball bearings are available in a variety of arrangements. They are designed for high-load capacity and relatively high speed operation and, compared to the equivalent SKF B and E design high-speed bearings, are best suited for heavier loads.

Technical specifications

General	
Universal matching bearing(s)	Yes, back-to-back (<>), face-to-face (><) or tandem (>>)

Dimensions	
Bore diameter	50 mm
Outside diameter	90 mm
Width	40 mm
Shoulder diameter of inner ring (large side face)	62.3 mm
Shoulder diameter of inner ring (small side face)	62.3 mm
Shoulder diameter of outer ring (large side face)	77.7 mm
Chamfer dimension	1.1 mm
Chamfer dimension	0.6 mm
Contact angle	15 °

Abutment dimensions	
Diameter of shaft abutment	57 mm
Diameter of shaft abutment	57 mm
Diameter of housing abutment	83 mm
Diameter of housing abutment	85.8 mm
Radius of fillet	1 mm
Radius of fillet	0.6 mm
Position of oil nozzle	65.6 mm

Calculation data	
Basic dynamic load rating	72.8 kN
Basic static load rating	68 kN
Fatigue load limit	2.9 kN
Attainable speed for grease lubrication	To be calculated: Single bearing (16000) x speed reduction factor (see table below)
Attainable speed for oil-air lubrication	To be calculated: Single bearing (26000) x speed reduction factor (see table below)
Contact angle	15 °
Ball diameter	12.7 mm
Number of rows	2
Number of balls (per bearing)	15
Reference grease quantity (per bearing)	6.7 cm ³
Preload class	A
Preload	170 N
Axial stiffness	65 N/μm
Correction factor dependent on bearing series and size	1.1
Correction factor dependent on contact angle	1
Correction factor, preload class A	1
Correction factor for hybrid bearings	1
Calculation factor for equivalent loads	14.5
Additional factors for equivalent loads	Refer to Notes 1 and 2 below

Performance	

Basic dynamic load rating	72.8 kN
Basic static load rating	68 kN
Note	Refer to catalogue data or contact SKF for the attainable speeds

Properties	
Contact type	Normal contact (two-point contact)
Number of rows	2
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	Universal matching
Number of bearings in matched set	2
Matched condition (axial clearance/ preload)	Extra light preload
Tolerance class	P4A
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Indicative carbon footprint for new product	3.3 kg CO ₂

Logistics	
Product net weight	0.908 kg
eClass code	23-05-08-04
UNSPSC code	31171531

SKF drawings



