



## SKF 7006 ACD/P4ADGB

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	30 mm
Outside diameter	55 mm
Width	26 mm
Shoulder diameter of inner ring (large side face)	37.7 mm
Shoulder diameter of inner ring (small side face)	37.7 mm
Shoulder diameter of outer ring (large side face)	47.3 mm
Chamfer dimension	1 mm
Chamfer dimension	0.3 mm
Contact angle	25 °

Abutment dimensions	
Diameter of shaft abutment	34.6 mm
Diameter of shaft abutment	34.6 mm
Diameter of housing abutment	50.4 mm
Diameter of housing abutment	53 mm
Radius of fillet	1 mm
Radius of fillet	0.3 mm
Position of oil nozzle	39.3 mm

Calculation data	
Basic dynamic load rating	22.1 kN
Basic static load rating	15.3 kN
Fatigue load limit	0.655 kN
Attainable speed for grease lubrication	To be calculated: Single bearing (28000) x speed reduction factor (see table below)
Attainable speed for oil-air lubrication	To be calculated: Single bearing (43000) x speed reduction factor (see table below)
Contact angle	25 °
Ball diameter	7.938 mm
Number of rows	2
Number of balls (per bearing)	14
Reference grease quantity (per bearing)	1.6 cm <sup>3</sup>
Preload class	B
Preload	180 N
Axial stiffness	102 N/μm
Correction factor dependent on bearing series and size	1.1
Correction factor dependent on contact angle	0.99
Correction factor, preload class B	1
Correction factor for hybrid bearings	1
Calculation factor	0.68
Axial load factor (single, tandem)	0
Axial load factor (single, tandem)	0.87
Axial load factor (single, tandem)	0.38

Radial load factor (single, tandem)	1
Radial load factor (single, tandem)	0.41
Radial load factor (single, tandem)	0.5
Axial load factor (back-to-back, face-to-face)	0.92
Axial load factor (back-to-back, face-to-face)	1.4
Axial load factor (back-to-back, face-to-face)	0.76
Radial load factor (back-to-back, face-to-face)	1
Radial load factor (back-to-back, face-to-face)	0.67
Radial load factor (back-to-back, face-to-face)	1

### Performance

Basic dynamic load rating	22.1 kN
Basic static load rating	15.3 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)	Light preload
Tolerance class	P4A
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Indicative carbon footprint for new product	0.79 kg CO <sub>2</sub> e

### Logistics

Product net weight	0.219 kg
eClass code	23-05-08-04
UNSPSC code	31171531

# SKF drawings



