

248/800 CAK30MA/W20

SKF Explorer

Spherical roller bearings

Bearing data

[Tolerances,](#)

Normal, P6, P5, tapered bore 1:12,
tapered bore 1:30,

[Radial internal clearance,](#)

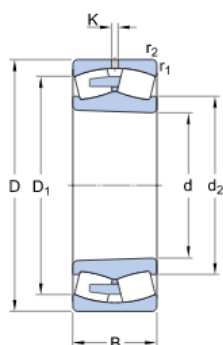
cylindrical bore, tapered bore

Bearing interfaces

[Seat tolerances for standard
conditions,](#)

[Tolerances and resultant fit](#)

Technical specification



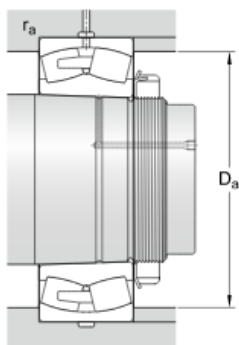
DIMENSIONS

d	800 mm
D	980 mm
B	180 mm
d ₂	≈ 865 mm
D ₁	≈ 921 mm
K	12 mm
r _{1,2}	min. 5 mm

Tapered bore, taper 1:30

ABUTMENT DIMENSIONS

D _a	max. 962 mm
r _a	max. 4 mm



CALCULATION DATA

Basic dynamic load rating	C	4780 kN
Basic static load rating	C ₀	12900 kN
Fatigue load limit	P _u	830 kN
Reference speed		320 r/min
Limiting speed		560 r/min
Calculation factor	e	0.15
Calculation factor	Y ₁	4.5
Calculation factor	Y ₂	6.7
Calculation factor	Y ₀	4.5

MASS

Mass bearing	295 kg
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More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
Designs and variants	Designs and variants	Principles of rolling bearing selection	Principles of rolling bearing selection	SimPro Quick	SimPro Quick
Bearing data	Bearing data	General bearing knowledge	General bearing knowledge	Bearing Select	Bearing Select
Loads	Loads			Engineering Calculator	Engineering Calculator
Temperature limits	Temperature limits	Bearing selection process	Bearing selection process	Housing Select	Housing Select
Permissible speed	Permissible speed	Bearing failure and how to prevent it	Bearing failure and how to prevent it	LubeSelect for SKF greases	LubeSelect for SKF greases
Design considerations	Design considerations			Drive-up Method Program	Drive-up Method Program
Mounting	Mounting			Heater selection tool	Heater selection tool
Designation system	Designation system			Oil Injection Method Program	Oil Injection Method Program
				Rolling bearings mounting and dismounting instructions	Rolling bearings mounting and dismounting instructions
				Tool and Accessory Selector for sleeves and shafts	Tool and Accessory Selector for sleeves and shafts

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