



BEARING DRIVESHAFT, INC.



50 mm x 90 mm x 20 mm SKF 7210 BECBJ
angular contact ball bearings

Bearing No. 7210 BECBJ

7210 BECBJ Bearing 2D drawings and 3D CAD models

Size	90x50x20 mm
Bore Diameter	90 mm
Outer Diameter	50 mm
Width	20 mm
d	50 mm
D	90 mm
B	20 mm
d ₁	65.75 mm
d ₂	57.68 mm
D ₁	75.15 mm
a	39 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
d _a - min.	57 mm
D _a - max.	83 mm
D _b - max.	85.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	37.7 kN
Basic static load rating - C ₀	28.5 kN
Fatigue load limit - P _u	1.2 kN
Reference speed	8500 r/min
Limiting speed	8500 r/min
Calculation factor - k _r	0.095



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Calculation factor - k_a	1.4
Calculation factor - e	1.14
Calculation factor - X	0.57
Calculation factor - Y_0	0.52
Calculation factor - Y_1	0.55
Calculation factor - Y_2	0.93
Calculation factor - X	0.35
Calculation factor - Y_0	0.26
Calculation factor - Y_1	
Calculation factor - Y_2	0.57
Category	Angular Contact Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.502
Product Group	B00308
Enclosure	Open
Flush Ground	Yes
Rolling Element	Ball Bearing
Number of Rows of Balls	Single Row
Precision Class	ABEC 1 ISO P0
Maximum Capacity / Filling Slot	No
Snap Ring	No
Cage Material	Steel
Contact Angle	40 Degree
Internal Clearance	CB
Number of Bearings	1 (Single)
Mounting Arrangement	Universal
Inch - Metric	Metric
Long Description	50MM Bore; 90MM



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	Outside Diameter; 20MM Width; Open; Yes Flush Ground; Ball Bearing; Single Row of Balls; ABEC 1 ISO P0; No Filling Slot; No Snap Ring; CB; Steel Cage; 40 Degree; 1 (Single); Universa
Other Features	Normal Axial Internal Clearance
Category	Angular Contact Ball Bearing
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	7210 BECBJ
Outside Diameter	3.543 Inch 90 Millimeter
Width	0.787 Inch 20 Millimeter
Bore	1.969 Inch 50 Millimeter
bore diameter:	50 mm
operating temperature range:	257 ° F
outside diameter:	90 mm
cage material:	Steel
overall width:	20 mm
maximum rpm:	9000 rpm
contact angle:	40 °
finish/coating:	Uncoated
bore type:	Round
fillet radius:	1.1 mm
closure type:	Open
series:	72
bearing material:	Steel
weight:	1.04 lbs



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radial dynamic load capacity:	40 kN
manufacturer product page:	Click here
radial static load capacity:	31 kN
manufacturer upc number:	7316570890150
d_1	65.75 mm
d_2	57.68 mm
D_1	75.15 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	57 mm
D_a max.	83 mm
D_b max.	85.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	40 kN
Basic static load rating C_0	31 kN
Fatigue load limit P_u	1.32 kN
Calculation factor A	0.014
Calculation factor k_r	0.095
Calculation factor e	1.14
Calculation factor X	0.35
Calculation factor Y_0	0.26
Calculation factor Y_2	0.57
Calculation factor X	0.57
Calculation factor Y_0	0.52
Calculation factor Y_1	0.55
Calculation factor Y_2	0.93
Mass bearing	0.47 kg