

# 210-2ZNR SKF Fatigue Load limit – Pu 1.5 kN 90x50x20mm Deep groove ball bearings

Bearing number	210-2ZNR
Size (mm)	90x50x20
Brand	SKF
Bore Diameter (mm)	90
Outer Diameter (mm)	50
Width (mm)	20
d	50 mm
D	90 mm
B	20 mm
d <sub>1</sub>	62.51 mm
D <sub>2</sub>	81.61 mm
D <sub>3</sub>	86.79 mm
D <sub>4</sub>	96.5 mm
b	2.7 mm
C	3.28 mm
f	2.46 mm
r <sub>0</sub>	0.6 mm
r <sub>1,2</sub> – min.	1.1 mm
d <sub>a</sub> – min.	57 mm
d <sub>a</sub> – max.	62.4 mm
D <sub>a</sub> – max.	83 mm
D <sub>b</sub> – min.	98 mm

$b_a$ – min.	3 mm
$C_a$ – max.	5.74 mm
$r_a$ – max.	1 mm
Basic dynamic load rating – C	39.1 kN
Basic static load rating – $C_0$	34.5 kN
Fatigue load limit – $P_u$	1.5 kN
Reference speed	13000 r/min
Limiting speed	6400 r/min
Calculation factor minimum radial load – $k_r$	0.04
Mass bearing	0.5 kg
Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.533
EAN	7316577292773
Product Group – BDI	B00308
Enclosure	2 Metal Shields
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	Yes
Rolling Element	Ball Bearing
Snap Ring	Yes
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch – Metric	Metric

Long Description	50MM Bore; 90MM Outside Diameter; 20MM Outer Race Diameter; 2 Metal Shields; Ball Bearing; ABEC 1   ISO P0; Yes Filling Slot; Yes Snap Ring; No Internal Special Features
Category – BDI	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	210 2ZNR
Weight / LBS	1.17
Outer Race Width	0.787 Inch   20 Millimeter
Bore	1.969 Inch   50 Millimeter
Outside Diameter	3.543 Inch   90 Millimeter
bore diameter:	50 mm
static load capacity:	34.5 kN
outside diameter:	90 mm
precision rating:	ABEC 3 (ISO Class 6)
overall width:	20 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Double Shielded
outer ring width:	20 mm
row type & fill slot:	Single Row Filling Slot
fillet radius:	1 mm

snap ring included:	With Snap Ring
maximum rpm:	8000 RPM
internal clearance:	C0
series:	21
dynamic load capacity:	39.1 kN
thrust application warning:	This product can not be used in Thrust Applications
$d_1 \approx$	62.51 mm
$D_2 \approx$	81.61 mm
$D_3$	86.79 mm
$D_4$	96.5 mm
$r_0$ max.	0.6 mm
$r_{1,2}$ min.	1.1 mm
$d_a$ min.	57 mm
$d_a$ max.	62.4 mm
$D_a$ max.	83 mm
$D_b$ min.	98 mm
$b_a$ min.	3 mm
$C_a$ max.	5.74 mm
$r_a$ max.	1 mm
Basic dynamic load rating C	39.1 kN
Basic static load rating $C_0$	34.5 kN
Fatigue load limit $P_u$	1.46 kN
Calculation factor $k_r$	0.04
Snap ring	SP 90