

# 2220 SKF 180x100x46mm Outside Diameter 7.087 Inch | 180 Millimeter Self aligning ball bearings

Bearing number	2220
Size (mm)	180x100x46
Brand	SKF
Bore Diameter (mm)	180
Outer Diameter (mm)	100
Width (mm)	46
d	100 mm
D	180 mm
B	46 mm
d <sub>1</sub>	124 mm
D <sub>1</sub>	156.9 mm
r <sub>1,2</sub> – min.	2.1 mm
d <sub>a</sub> – min.	112 mm
D <sub>a</sub> – max.	168 mm
r <sub>a</sub> – max.	2 mm
Basic dynamic load rating – C	97.5 kN
Basic static load rating – C <sub>0</sub>	40.5 kN
Fatigue load limit – P <sub>u</sub>	1.8 kN
Reference speed	6700 r/min
Limiting speed	4800 r/min
Calculation factor – k <sub>r</sub>	0.04

Calculation factor – e	0.27
Calculation factor – Y <sub>0</sub>	2.5
Calculation factor – Y <sub>1</sub>	2.3
Calculation factor – Y <sub>2</sub>	3.6
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
EAN	7316571482170
Product Group – BDI	B00152
Mounting Method	Shaft
Enclosure	Open
Rolling Element	Ball Bearing
Cage Material	Steel
Precision Class	ABEC 1   ISO P0
Internal Clearance	C0-Medium
Number of Rows of Balls	Double Row
Other Features	Allowable Misalignment 2.5 Deg
Long Description	100MM Bore; Shaft Mount; 180MM Outside Diameter; 46MM Inner Race Width; 46MM Outer Race Width; Open; Steel Cage; Double Row of Balls; ABEC 1   ISO P0; C0-Medium
Inch – Metric	Metric
Category – BDI	Self Aligning Ball Bearings
UNSPSC	31171532
Harmonized Tariff Code	8482.10.50.68

Noun	Bearing
Keyword String	Self Aligning
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outer Race Width	1.811 Inch   46 Millimeter
Bore	3.937 Inch   100 Millimeter
Outside Diameter	7.087 Inch   180 Millimeter
Inner Race Width	1.811 Inch   46 Millimeter
$d_1 \approx$	124 mm
$D_1 \approx$	156.9 mm
$r_{1,2} \text{ min.}$	2.1 mm
$d_a \text{ min.}$	112 mm
$D_a \text{ max.}$	168 mm
$r_a \text{ max.}$	2 mm
Basic dynamic load rating C	97.5 kN
Basic static load rating $C_0$	40.5 kN
Fatigue load limit $P_u$	1.76 kN
Permissible angular misalignment $\alpha$	2.5 °
Calculation factor $k_r$	0.04
Calculation factor e	0.27
Calculation factor $Y_0$	2.5
Calculation factor $Y_1$	2.3
Calculation factor $Y_2$	3.6
Mass bearing	5 kg