



Bearing No. 2314

D	150 mm
d	70 mm
B	51 mm
Bore	2.756 Inch 70 Millimeter
Noun	Bearing
UNSPSC	31171532
series:	2300
Category	Self Aligning Ball Bearings
Enclosure	Open
Inventory	0.0
Size (mm)	150x70x51
Width (mm)	51
bore type:	Straight
Weight / LBS	8.869
Mass bearing	3.9 kg
maximum rpm:	6000 RPM
Product Group	B00152
closure type:	Open
D ₁	128.1 mm
Inch - Metric	Metric
d ₁	92 mm
Cage Material	Steel
bore diameter:	70 mm
overall width:	51 mm
Keyword String	Self Aligning
cage material:	Steel
Other Features	Allowable Misalignment 3 Deg
fillet radius:	2 mm

Bearing number	2314
Limiting speed	6000 r/min
Mounting Method	Shaft
Rolling Element	Ball Bearing
Precision Class	ABEC 1 ISO P0
Reference speed	8000 r/min
finish/coating:	Uncoated
Outside Diameter	5.906 Inch 150 Millimeter
Outer Race Width	2.008 Inch 51 Millimeter
Inner Race Width	2.008 Inch 51 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	70MM Bore; Shaft Mount; 150MM Outside Diameter; 51MM Inner Race Width; 51MM Outer Race Width; Open; Steel Cage; Double Row of Balls; ABEC 1 ISO P0; C0-Medium
Weight / Kilogram	4.027
precision rating:	Not Rated
outer ring width:	51 mm
Manufacturer Name	SKF
outside diameter:	150 mm
Bore Diameter (mm)	150
D _a max.	138 mm
r _a max.	2 mm
Internal Clearance	C0-Medium
d _a min.	82 mm
Outer Diameter (mm)	70
internal clearance:	C0

$r_{1,2}$ min.	2.1 mm
Calculation factor e	0.37
d_a - min.	82 mm
r_a - max.	2 mm
D_a - max.	138 mm
Minimum Buy Quantity	N/A
D_1 ?	128.1 mm
d_1 ?	92 mm
static load capacity:	37.5 kN
Calculation factor - e	0.37
Harmonized Tariff Code	8482.10.50.68
dynamic load capacity:	111 kN
$r_{1,2}$ - min.	2.1 mm
Number of Rows of Balls	Double Row
Manufacturer Item Number	2314
Basic dynamic load rating C	111 kN
Basic dynamic load rating - C	111 kN
Fatigue load limit P_u	1.86 kN
Calculation factor k_r	0.05
Calculation factor Y_0	1.8
Calculation factor Y_1	1.7
Calculation factor Y_2	2.6
Calculation factor - Y_0	1.8
Calculation factor - Y_2	2.6
Fatigue load limit - P_u	1.9 kN
Calculation factor - k_r	0.05
Calculation factor - Y_1	1.7
Permissible angular misalignment ?	3 °
Basic static load rating	37.5 kN

C ₀	
Basic static load rating - C ₀	37.5 kN