

# 2312 SKF 130x60x46mm static load capacity: 28.5 kN Self aligning ball bearings

Bearing number	2312
Size (mm)	130x60x46
Brand	SKF
Bore Diameter (mm)	130
Outer Diameter (mm)	60
Width (mm)	46
d	60 mm
D	130 mm
B	46 mm
$d_1$	77.1 mm
$D_1$	109.2 mm
$r_{1,2} - \text{min.}$	2.1 mm
$d_a - \text{min.}$	72 mm
$D_a - \text{max.}$	118 mm
$r_a - \text{max.}$	2 mm
Basic dynamic load rating – C	87.1 kN
Basic static load rating – $C_0$	28.5 kN
Fatigue load limit – $P_u$	1.5 kN
Reference speed	9500 r/min
Limiting speed	7000 r/min
Calculation factor – $k_r$	0.05
Calculation factor – e	0.33

Calculation factor – Y <sub>0</sub>	2
Calculation factor – Y <sub>1</sub>	1.9
Calculation factor – Y <sub>2</sub>	3
Product Group – BDI	B00152
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	2.656
EAN	7316576605253
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 3 Deg
Long Description	60MM Bore; Shaft Mount; 130MM 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>
Manufacturer Item Number	2312
Weight / LBS	5.851
Bore	2.362 Inch   60 Millimeter
Outside Diameter	5.118 Inch   130 Millimeter
Inner Race Width	1.811 Inch   46 Millimeter
Outer Race Width	1.811 Inch   46 Millimeter
bore diameter:	60 mm
static load capacity:	28.5 kN
outside diameter:	130 mm
precision rating:	Not Rated
overall width:	46 mm
maximum rpm:	7000 RPM
bore type:	Straight
finish/coating:	Uncoated
closure type:	Open
outer ring width:	46 mm
internal clearance:	C0
fillet radius:	2 mm
dynamic load capacity:	87.1 kN
series:	2300
$d_1 \approx$	77.1 mm
$D_1 \approx$	109.2 mm
$r_{1,2} \text{ min.}$	2.1 mm
$d_a \text{ min.}$	72 mm
$D_a \text{ max.}$	118 mm
$r_a \text{ max.}$	2 mm

Basic dynamic load rating C	87.1 kN
Basic static load rating $C_0$	28.5 kN
Fatigue load limit $P_u$	1.46 kN
Permissible angular misalignment $\alpha$	3 °
Calculation factor $k_r$	0.05
Calculation factor e	0.33
Calculation factor $Y_0$	2
Calculation factor $Y_1$	1.9
Calculation factor $Y_2$	3
Mass bearing	2.6 kg