



BEARING DRIVESHAFT, INC.



70 mm x 150 mm x 51 mm skf 2314 bearing

Bearing No. 2314

2314 Bearing 2D drawings and 3D CAD models

| | |
|---|-----------------------------|
| Size | 150x70x51 mm |
| Bore Diameter | 150 mm |
| Outer Diameter | 70 mm |
| Width | 51 mm |
| d | 70 mm |
| D | 150 mm |
| B | 51 mm |
| d ₁ | 92 mm |
| D ₁ | 128.1 mm |
| r _{1,2} - min. | 2.1 mm |
| d _a - min. | 82 mm |
| D _a - max. | 138 mm |
| r _a - max. | 2 mm |
| Basic dynamic load rating - C | 111 kN |
| Basic static load rating - C ₀ | 37.5 kN |
| Fatigue load limit - P _u | 1.9 kN |
| Reference speed | 8000 r/min |
| Limiting speed | 6000 r/min |
| Calculation factor - k _r | 0.05 |
| Calculation factor - e | 0.37 |
| Calculation factor - Y ₀ | 1.8 |
| Calculation factor - Y ₁ | 1.7 |
| Calculation factor - Y ₂ | 2.6 |
| Category | Self Aligning Ball Bearings |



BEARING DRIVESHAFT, INC.

| | |
|--------------------------|---|
| Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 4.027 |
| Product Group | 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 3 Deg |
| 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 |
| Inch - Metric | Metric |
| Category | Self Aligning Ball Bearings |
| UNSPSC | 31171532 |
| Harmonized Tariff Code | 8482.10.50.68 |
| Noun | Bearing |
| Keyword String | Self Aligning |
| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 2314 |
| Weight / LBS | 8.869 |
| Inner Race Width | 2.008 Inch 51 Millimeter |
| Outer Race Width | 2.008 Inch 51 Millimeter |
| Outside Diameter | 5.906 Inch 150 Millimeter |
| Bore | 2.756 Inch 70 Millimeter |
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|----------------------------------|-----------|
| bore diameter: | 70 mm |
| precision rating: | Not Rated |
| outside diameter: | 150 mm |
| maximum rpm: | 6000 RPM |
| overall width: | 51 mm |
| cage material: | Steel |
| bore type: | Straight |
| finish/coating: | Uncoated |
| closure type: | Open |
| outer ring width: | 51 mm |
| internal clearance: | C0 |
| fillet radius: | 2 mm |
| dynamic load capacity: | 111 kN |
| series: | 2300 |
| static load capacity: | 37.5 kN |
| d_1 | 92 mm |
| D_1 | 128.1 mm |
| $r_{1,2}$ min. | 2.1 mm |
| d_a min. | 82 mm |
| D_a max. | 138 mm |
| r_a max. | 2 mm |
| Basic dynamic load rating C | 111 kN |
| Basic static load rating C_0 | 37.5 kN |
| Fatigue load limit P_u | 1.86 kN |
| Permissible angular misalignment | 3 ° |
| Calculation factor k_r | 0.05 |
| Calculation factor e | 0.37 |
| Calculation factor Y_0 | 1.8 |
| Calculation factor Y_1 | 1.7 |
| Calculation factor Y_2 | 2.6 |
| Mass bearing | 3.9 kg |