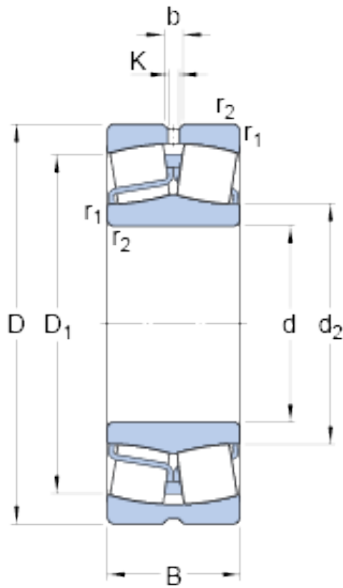




# NACHI BEARINGS TRAINING INDUSTRY



22314 E Bearing 2D drawings and 3D CAD models

70 mm x 150 mm x 51 mm SKF 22314 E  
spherical roller bearings

Bearing No. 22314 E

|   |              |
|---|--------------|
| Size                                      | 150x70x51 mm |
| Bore Diameter                             | 150 mm       |
| Outer Diameter                            | 70 mm        |
| Width                                     | 51 mm        |
| d   | 70 mm        |
| D   | 150 mm       |
| B   | 51 mm        |
| d <sub>2</sub>                            | 90.3 mm      |
| D <sub>1</sub>                            | 128 mm       |
| b   | 8.3 mm       |
| K   | 4.5 mm       |
| r <sub>1,2</sub> - min.                   | 2.1 mm       |
| d <sub>a</sub> - min.                     | 82 mm        |
| D <sub>a</sub> - max.                     | 138 mm       |
| r <sub>a</sub> - max.                     | 2 mm         |
| Basic dynamic load rating - C             | 413 kN       |
| Basic static load rating - C <sub>0</sub> | 430 kN       |
| Fatigue load limit - P <sub>u</sub>       | 45 kN        |
| Reference speed                           | 3400 r/min   |
| Limiting speed                            | 4500 r/min   |
| Calculation factor - e                    | 0.33         |
| Calculation factor - Y <sub>1</sub>       | 2            |
| Calculation factor - Y <sub>2</sub>       | 3            |
| Calculation factor - Y <sub>0</sub>       | 2            |



## NACHI BEARINGS TRAINING INDUSTRY

|                           |   |
|---------------------------|---|
| Category                  | Spherical Roller Bearings   |
| Inventory                 | 0.0   |
| Manufacturer Name         | SKF   |
| Minimum Buy Quantity      | N/A   |
| Weight / Kilogram         | 4.373   |
| EAN                       | 7316570790306   |
| Product Group             | B04311  |
| Internal Clearance        | C0-Medium   |
| Mounting Method           | Shaft Mount   |
| Rolling Element           | Spherical Roller Bearing  |
| Bore Profile              | Straight  |
| Cage Material             | Steel   |
| Enclosure                 | Open  |
| Number of Rows of Rollers | Double Row  |
| Relubricatable            | Yes   |
| Withdrawal Sleeve         | Not Applicable  |
| Withdrawal Nut            | Not Applicable  |
| Inch - Metric             | Metric  |
| Long Description          | 70MM Straight Bore;<br>150MM Outside Diameter;<br>51MM Width; C0-Medium<br>Clearance; Shaft Mount;<br>Double Row of Spherical<br>Roller Bearings; Steel Cage<br>Material; Open Enclosure;<br>Relubricatable |
| Category                  | Spherical Roller Bearing  |
| UNSPSC                    | 31171510  |
| Harmonized Tariff Code    | 84823080  |
| Noun                      | Bearing   |
| Keyword String            | Spherical   |
| Manufacturer URL          | <a href="http://www.skf.com">http://www.skf.com</a>   |
| Weight / LBS              | 9.633   |
| Outside Diameter          | 5.906 Inch   150 Millimeter   |
|                           |   |



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|                                |   |
|--------------------------------|---|
| Bore                           | 2.756 Inch   70 Millimeter                      |
| Width                          | 2.008 Inch   51 Millimeter                      |
| Adapter Part Number            | Not Applicable Inch   Not Applicable Millimeter |
| bore diameter:                 | 70 mm   |
| maximum rpm:                   | 4500 RPM  |
| outside diameter:              | 150 mm  |
| operating temperature range:   | Maximum of +390 ° F                             |
| overall width:                 | 4.3800 in                                       |
| cage material:                 | Steel   |
| bore type:                     | Straight  |
| bearing material:              | Steel   |
| outer ring type:               | Not Split                                       |
| precision rating:              | Not Rated                                       |
| internal clearance:            | C0  |
| finish/coating:                | Uncoated  |
| closure type:                  | Open  |
| outer ring width:              | 51 mm   |
| lubrication hole type:         | Lubrication Groove & Hole                       |
| fillet radius:                 | 2 mm  |
| dynamic load capacity:         | 400 kN  |
| series:                        | 223   |
| static load capacity:          | 430 kN  |
| $d_2$                          | 90.3 mm   |
| $D_1$                          | 128 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    | 413 kN  |
| Basic static load rating $C_0$ | 430 kN  |
| Fatigue load limit $P_u$       | 45 kN   |



## NACHI BEARINGS TRAINING INDUSTRY

|                          |         |
|--------------------------|---------|
| Calculation factor e     | 0.33    |
| Calculation factor $Y_1$ | 2       |
| Calculation factor $Y_2$ | 3       |
| Calculation factor $Y_0$ | 2       |
| Mass bearing             | 4.55 kg |