



## SKF 32316

### Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

## Technical specifications

| General          |     |
|------------------|-----|
| Dimension series | 2GD |

| Dimensions                           |          |
|--------------------------------------|----------|
| Bore diameter                        | 80 mm    |
| Outside diameter                     | 170 mm   |
| Bearing width, total                 | 61.5 mm  |
| Shoulder diameter of inner ring      | 120.7 mm |
| Width of inner ring                  | 58 mm    |
| Width of outer ring                  | 48 mm    |
| Chamfer dimension of inner ring      | 3 mm     |
| Chamfer dimension of outer ring      | 2.5 mm   |
| Distance side face to pressure point | 40.5 mm  |
| Width, total                         | 61.5 mm  |
| Width, inner ring                    | 58 mm    |
| Width, outer ring                    | 48 mm    |
| Contact angle                        | 13 °     |

| Abutment dimensions                                           |         |
|---------------------------------------------------------------|---------|
| Diameter of shaft abutment                                    | 98 mm   |
| Diameter of shaft abutment                                    | 93.5 mm |
| Diameter of housing abutment                                  | 142 mm  |
| Diameter of housing abutment                                  | 159 mm  |
| Diameter of housing abutment                                  | 159 mm  |
| Minimum width of space required in housing on large side face | 7 mm    |
| Minimum width of space required in housing on small side face | 13.5 mm |
| Radius of shaft fillet                                        | 3 mm    |
| Radius of housing fillet                                      | 2.5 mm  |

| Calculation data          |              |
|---------------------------|--------------|
| SKF performance class     | SKF Explorer |
| Basic dynamic load rating | 465 kN       |
| Basic static load rating  | 500 kN       |
| Fatigue load limit        | 56 kN        |
| Reference speed           | 3000 r/min   |
| Limiting speed            | 4000 r/min   |
| Limiting value            | 0.35         |
| Calculation factor        | 1.7          |
| Calculation factor        | 0.9          |

| Performance               |              |
|---------------------------|--------------|
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| Properties |  |
|------------|--|
|            |  |

|                                                   |                           |
|---------------------------------------------------|---------------------------|
| Bearing part                                      | Complete bearing          |
| Number of rows                                    | 1                         |
| Locating feature, bearing outer ring              | Without                   |
| Bore type                                         | Cylindrical               |
| Cage                                              | Sheet metal               |
| Arrangement of contact angle (double-row bearing) | Not applicable            |
| Matched arrangement                               | No                        |
| Coating                                           | Without                   |
| Sealing                                           | Without                   |
| Lubricant                                         | None                      |
| Relubrication feature                             | Without                   |
| Unit system                                       | Metric                    |
| Indicative carbon footprint for new product       | 22.1 kg CO <sub>2</sub> e |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 6.13 kg     |
| eClass code        | 23-05-09-10 |
| UNSPSC code        | 31171516    |

**SKF drawings**