



## SKF NK 20/20

Single row needle roller bearing with machined rings, with flanges, without inner

Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. The outer ring includes two integral flanges to guide the bearing axially and an annular groove with one or more lubrication holes to facilitate relubrication.

### Technical specifications

| Dimensions                                |        |
|---|--------|
| Diameter under rollers                    | 20 mm  |
| Outside diameter                          | 28 mm  |
| Width                                     | 20 mm  |
| Chamfer dimension outer ring              | 0.3 mm |
| Bore diameter of needle roller complement | 20 mm  |

| Abutment dimensions          |        |
|------------------------------|--------|
| Diameter of housing abutment | 26 mm  |
| Fillet radius                | 0.3 mm |

| Calculation data          |             |
|---------------------------|-------------|
| Basic dynamic load rating | 16.5 kN     |
| Basic static load rating  | 25.5 kN     |
| Fatigue load limit        | 3.05 kN     |
| Reference speed           | 19000 r/min |
| Limiting speed            | 22000 r/min |

| Associated seals  |            |
|---|------------|
| Radial shaft seal with a low cross-sectional height, single lip | G 20x28x4  |
| Radial shaft seal with a low cross-sectional height, double lip | SD 20x28x4 |

| Performance               |             |
|---------------------------|-------------|
| Basic dynamic load rating | 16.5 kN     |
| Basic static load rating  | 25.5 kN     |
| Reference speed           | 19000 r/min |
| Limiting speed            | 22000 r/min |

| Properties                                  |                            |
|---|----------------------------|
| Bearing part                                | Bearing without inner ring |
| Number of rows                              | 1                          |
| Outer ring type                             | Machined (solid)           |
| Aligning feature                            | Without                    |
| Cage  | Sheet steel                |
| Number of flanges, outer ring               | 2                          |
| Tolerance class                             | Normal                     |
| Material, bearing                           | Bearing steel              |
| Coating                                     | Without                    |
| Sealing                                     | Without                    |
| Lubricant                                   | None                       |
| Relubrication feature                       | With                       |
| Indicative carbon footprint for new product | 0.12 kg CO <sub>2</sub>    |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 0.034 kg    |
| eClass code        | 23-05-09-03 |
| UNSPSC code        | 31171512    |

**SKF drawings**

