



## SKF NK 55/35

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

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                    | 55 mm  |
| Outside diameter                          | 68 mm  |
| Width                                     | 35 mm  |
| Chamfer dimension outer ring              | 0.6 mm |
| Bore diameter of needle roller complement | 55 mm  |

| Abutment dimensions          |        |
|------------------------------|--------|
| Diameter of housing abutment | 64 mm  |
| Fillet radius                | 0.6 mm |

| Calculation data          |              |
|---------------------------|--------------|
| SKF performance class     | SKF Explorer |
| Basic dynamic load rating | 60 kN        |
| Basic static load rating  | 122 kN       |
| Fatigue load limit        | 15.6 kN      |
| Reference speed           | 7500 r/min   |
| Limiting speed            | 8500 r/min   |

| Associated seals  |                 |
|-------------------|-----------------|
| Radial shaft seal | 55x68x8 HMS5 RG |

| Performance               |              |
|---------------------------|--------------|
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| 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 | 0.98 kg CO <sub>2</sub>    |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 0.273 kg    |
| eClass code        | 23-05-09-03 |
| UNSPSC code        | 31171512    |

**SKF drawings**

