



## SKF NNU 4926 BK/SPW33

Super-precision double row cylindrical roller bearing with tapered bore and lubrication

Super-precision double row cylindrical roller bearings in the NNU 49 series are designed to accommodate heavy radial loads and high speeds, while providing a high degree of stiffness. Having three flanges on the outer ring and no flanges on the inner ring, the bearings can accommodate axial displacement in both directions. The separable design simplifies mounting and dismounting, particularly when load conditions require both rings to have an interference fit. The tapered bore enables accurate adjustment of clearance or preload during mounting.

### Technical specifications

| General   |              |
|-----------|--------------|
| Bore type | Tapered 1:12 |

| Dimensions                                                                                              |        |
|---------------------------------------------------------------------------------------------------------|--------|
| Bore diameter                                                                                           | 130 mm |
| Outside diameter                                                                                        | 180 mm |
| Width                                                                                                   | 50 mm  |
| Shoulder diameter outer ring (NNU design)                                                               | 162 mm |
| Raceway diameter inner ring (NNU design)                                                                | 146 mm |
| Width annular lubrication groove at outer ring                                                          | 5.5 mm |
| Diameter lubrication hole (outer ring)                                                                  | 3 mm   |
| Chamfer dimension outer ring                                                                            | 1.5 mm |
| Chamfer dimension inner ring (bearing with tapered bore)                                                | 1 mm   |
| Permissible axial displacement from the normal position of one bearing ring relative to the other (all) | 2.2 mm |

| Abutment dimensions                                   |        |
|-------------------------------------------------------|--------|
| Abutment diameter shaft                               | 137 mm |
| Abutment diameter shaft (NNU design)                  | 144 mm |
| Abutment diameter housing                             | 172 mm |
| Fillet radius                                         | 1.5 mm |
| Oil nozzle position (not for variants with TNHA cage) | 147 mm |

| Calculation data                          |                    |
|-------------------------------------------|--------------------|
| Basic dynamic load rating                 | 187 kN             |
| Basic static load rating                  | 390 kN             |
| Fatigue load limit                        | 41.5 kN            |
| Attainable speed for grease lubrication   | 4300 r/min         |
| Attainable speed for oil-air lubrication  | 4800 r/min         |
| Reference grease quantity                 | 31 cm <sup>3</sup> |
| Static radial stiffness (guideline value) | 3570 N/μm          |

| Performance                              |            |
|------------------------------------------|------------|
| Basic dynamic load rating                | 187 kN     |
| Basic static load rating                 | 390 kN     |
| Attainable speed for grease lubrication  | 4300 r/min |
| Attainable speed for oil-air lubrication | 4800 r/min |

| Properties                    |                  |
|-------------------------------|------------------|
| Bearing part                  | Complete bearing |
| Number of rows                | 2                |
| Bore type                     | Tapered 1:12     |
| Cage                          | Machined metal   |
| Design                        | NNU              |
| Number of flanges, outer ring | 3                |
| Number of flanges, inner ring | 0                |
| Loose flange                  | None             |
| Radial internal clearance     | C1               |

|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| Tolerance class                             | Class SP (SP)                        |
| Material, bearing                           | Bearing steel                        |
| Coating                                     | Without                              |
| Sealing                                     | Without                              |
| Lubricant                                   | None                                 |
| Relubrication feature                       | Annular groove and lubrication holes |
| Indicative carbon footprint for new product | 13.5 kg CO <sub>2</sub> e            |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 3.76 kg     |
| eClass code        | 23-05-09-01 |
| UNSPSC code        | 31171505    |

**SKF drawings**