

Sealed Spherical Roller Bearings



Sealed spherical roller bearings offer long-life performance, are highly reliable, and promote a clean working environment.



■ Features

1. Reliability

Special Grease

Heat and pressure resistance are ensured using a special long-life grease. Standard grease consists of Emalube 8030.

Special Seal

Sealing performance is enhanced by adopting an outward-extending, spring-loaded lip seal made of nitrile rubber and is beaded on the outer circumference, which secures the seal to prevent dislodging.

Symmetric Rollers

Roller and raceway surface areas are designed to prevent edge loading at the contact points under high-load operating conditions.

Special Chamfer

The chamfer configuration of the outer-ring outer bore offers smooth axial movement of the bearing at the free end.

- This new series has the equivalent life of conventional bearings with the same bore dimensions and outer diameter. (Seal with a 16 mm-width has been added to the catalog.)

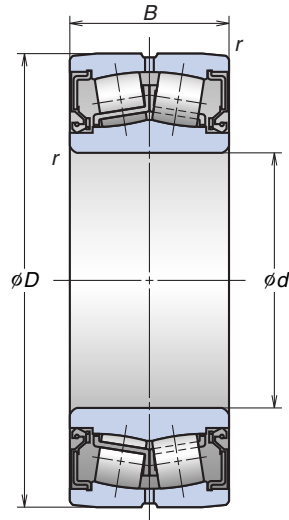
2. Reduced maintenance costs

- Achieves longer life by adopting high-cleanliness, vacuum-degassed steel.
- Extended maintenance intervals improve operating efficiency and conserve grease.

3. Environmentally friendly

- No grease leakage keeps operating environment clean.

Boundary dimensions



| Bearing Numbers | Boundary Dimensions (mm) | | | | Basic Load Ratings (N) | | Limiting Speeds (min ⁻¹) |
|-----------------|--------------------------|-----|----|---------|------------------------|-----------------|--------------------------------------|
| | d | D | B | r (min) | C _r | C _{0r} | |
| 50SLE9075DDE4 | 50 | 90 | 39 | 1.1 | 99 000 | 119 000 | 2 600 |
| 50SLE1175DDE4 | 50 | 110 | 56 | 2 | 197 000 | 234 000 | 2 400 |
| 55SLE1075DDE4 | 55 | 100 | 41 | 1.5 | 119 000 | 144 000 | 2 400 |
| 55SLE1275DDE4 | 55 | 120 | 59 | 2 | 234 000 | 292 000 | 2 200 |
| 60SLE1175DDE4 | 60 | 110 | 44 | 1.5 | 142 000 | 174 000 | 2 200 |
| 60SLE1375DDE4 | 60 | 130 | 62 | 2.1 | 271 000 | 340 000 | 2 000 |
| 65SLE1275DDE4 | 65 | 120 | 47 | 1.5 | 177 000 | 230 000 | 2 000 |
| 65SLE1475DDE4 | 65 | 140 | 64 | 2.1 | 300 000 | 380 000 | 2 000 |
| 70SLE1275DDE4 | 70 | 125 | 47 | 1.5 | 180 000 | 232 000 | 1 900 |
| 70SLE1575DDE4 | 70 | 150 | 67 | 2.1 | 340 000 | 435 000 | 1 700 |
| 75SLE1375DDE4 | 75 | 130 | 47 | 2 | 190 000 | 244 000 | 1 800 |
| 75SLE1675DDE4 | 75 | 160 | 71 | 2.1 | 390 000 | 505 000 | 1 700 |
| 80SLE1475DDE4 | 80 | 140 | 49 | 2 | 212 000 | 275 000 | 1 600 |
| 80SLE1775DDE4 | 80 | 170 | 74 | 2.1 | 435 000 | 565 000 | 1 500 |
| 85SLE1575DDE4 | 85 | 150 | 52 | 2 | 250 000 | 325 000 | 1 600 |
| 85SLE1875DDE4 | 85 | 180 | 76 | 3 | 480 000 | 630 000 | 1 500 |
| 90SLE1675DDE4 | 90 | 160 | 56 | 2 | 289 000 | 395 000 | 1 500 |
| 90SLE1636DDE4 | 90 | 160 | 68 | 2 | 340 000 | 490 000 | 1 500 |
| 90SLE1975DDE4 | 90 | 190 | 80 | 3 | 535 000 | 705 000 | 1 400 |
| 95SLE1775DDE4 | 95 | 170 | 59 | 2.1 | 330 000 | 450 000 | 1 400 |
| 95SLE1766DDE4 | 95 | 170 | 72 | 2.1 | 370 000 | 525 000 | 1 400 |
| 95SLE2075DDE4 | 95 | 200 | 83 | 3 | 590 000 | 780 000 | 1 300 |
| 100SLE1525DDE4 | 100 | 150 | 53 | 1.5 | 212 000 | 335 000 | 1 400 |
| 100SLE1536DDE4 | 100 | 150 | 66 | 1.5 | 276 000 | 470 000 | 1 400 |
| 100SLE1635DDE4 | 100 | 165 | 68 | 2 | 345 000 | 530 000 | 1 400 |

• Limiting Speed: Max 8m/sec.

| Bearing Numbers | Boundary Dimensions (mm) | | | | Basic Load Ratings (N) | | Limiting Speeds (min ⁻¹) |
|-----------------|--------------------------|-----|-----|---------|------------------------|-----------------|--------------------------------------|
| | d | D | B | r (min) | C _r | C _{0r} | |
| 100SLE1666DDE4 | 100 | 165 | 81 | 2 | 345 000 | 535 000 | 1 400 |
| 100SLE1875DDE4 | 100 | 180 | 62 | 2.1 | 365 000 | 490 000 | 1 300 |
| 100SLE1836DDE4 | 100 | 180 | 76 | 2.1 | 420 000 | 605 000 | 1 300 |
| 100SLE2175DDE4 | 100 | 215 | 89 | 3 | 690 000 | 930 000 | 1 200 |
| 110SLE1725DDE4 | 110 | 170 | 61 | 2 | 293 000 | 465 000 | 1 300 |
| 110SLE1736DDE4 | 110 | 170 | 76 | 2 | 380 000 | 645 000 | 1 300 |
| 110SLE1835DDE4 | 110 | 180 | 72 | 2 | 385 000 | 630 000 | 1 300 |
| 110SLE1836DDE4 | 110 | 180 | 85 | 2 | 460 000 | 750 000 | 1 300 |
| 110SLE2075DDE4 | 110 | 200 | 69 | 2.1 | 485 000 | 645 000 | 1 200 |
| 110SLE2036DDE4 | 110 | 200 | 86 | 2.1 | 515 000 | 760 000 | 1 200 |
| 110SLE2475DDE4 | 110 | 240 | 96 | 3 | 825 000 | 1 120 000 | 1 100 |
| 120SLE1825DDE4 | 120 | 180 | 62 | 2 | 315 000 | 525 000 | 1 100 |
| 120SLE1836DDE4 | 120 | 180 | 76 | 2 | 395 000 | 705 000 | 1 100 |
| 120SLE2035DDE4 | 120 | 200 | 78 | 2 | 465 000 | 720 000 | 1 100 |
| 120SLE2036DDE4 | 120 | 200 | 96 | 2 | 575 000 | 950 000 | 1 100 |
| 120SLE2175DDE4 | 120 | 215 | 74 | 2.1 | 550 000 | 765 000 | 1 100 |
| 120SLE2136DDE4 | 120 | 215 | 92 | 2.1 | 630 000 | 970 000 | 1 100 |
| 120SLE2675DDE4 | 120 | 260 | 102 | 3 | 955 000 | 1 320 000 | 1 000 |
| 130SLE2025DDE4 | 130 | 200 | 66 | 2 | 400 000 | 655 000 | 1 000 |
| 130SLE2036DDE4 | 130 | 200 | 85 | 2 | 495 000 | 865 000 | 1 100 |
| 130SLE2135DDE4 | 130 | 210 | 80 | 2 | 505 000 | 825 000 | 1 000 |
| 130SLE2136DDE4 | 130 | 210 | 96 | 2 | 590 000 | 1 010 000 | 1 000 |
| 130SLE2375DDE4 | 130 | 230 | 80 | 3 | 655 000 | 940 000 | 1 000 |
| 130SLE2336DDE4 | 130 | 230 | 96 | 3 | 700 000 | 1 080 000 | 1 000 |
| 130SLE2835DDE4 | 130 | 280 | 109 | 4 | 995 000 | 1 350 000 | 950 |

Note:

- Maximum permissible misalignment: 0.5°
- Maximum operating temperature: 80 °C

For more information about NSK products, please contact: www.nsk.com