

N1 NOTCHED THRUST SPHERICAL ROLLER BEARINGS FOR MARINE APPLICATIONS

EXCELLENCE IN PERFORMANCE AND DESIGN.

Timken's N1 Notched Thrust Spherical Roller Bearings are meticulously engineered to meet the rigorous demands of marine propulsion systems, thrusters, and drive trains. These bearings are designed to handle intense axial and radial loads and to compensate for tilting moments, ensuring high performance in critical marine applications.



Timken Advantages

Enhanced Safety and Performance:

The notched design prevents the outer ring from rotating to provide stable and reliable performance, even under high stress conditions.

High Load Capacity: Optimized to handle both axial and radial loads efficiently.

Durability: Engineered for durability, these bearings withstand the harsh marine environment and reduce the need for frequent maintenance.

Applications

Ideal for use in:

- Marine thrusters
- Drive trains
- Propulsion systems

Product Specifications:

Design Features:

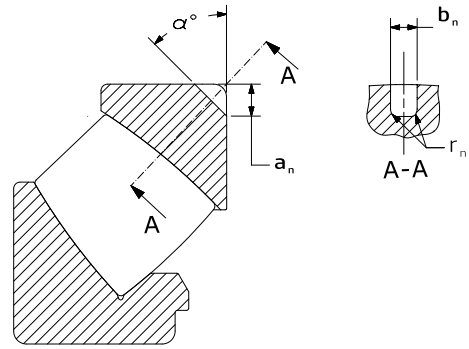
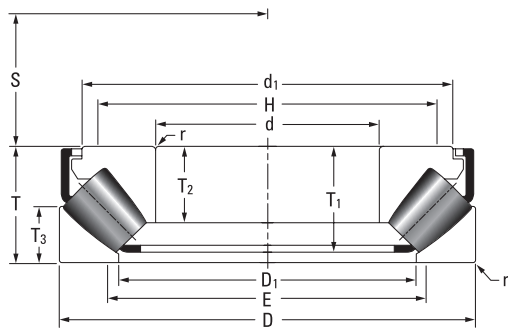
The spherical rollers are guided by outer ring raceways. The notch prevents rotation in the outer ring to enhance overall stability and performance.

Load Handling:

The symmetrical design of the rollers and raceways distributes loads optimally, minimizes wear, and extends bearing service life.

Tilting Moment Compensation:

With self-aligning rollers that maintain alignment under various operating conditions, thrust spherical bearings excel at managing the tilting moments inherent in marine propulsion systems,



| Part Number | Bearing Dimensions | | | | | N1 Slot Dimensions | | | | | | Load Rating | | Thermal Speed Rating | Limiting Speed | Bearing Weight |
|-------------|--------------------|------|-------|-----------------|-----------------|--------------------|-------|-----------|-------|-----------|-------|--------------------|---------------------|----------------------|----------------|----------------|
| | Bore | O.D. | Width | Inner Ring O.D. | Outer Ring Bore | α | a_n | a_n tol | b_n | b_n tol | r_n | Static Load Rating | Dynamic Load Rating | | | |
| | d | D | T | d1 | D1 | | | | | | | C_{a0} | C_a | | | |
| | mm | mm | mm | mm | mm | | | | | | | kN | kN | | | |
| 29418EJN1 | 90 | 190 | 60 | 164.6 | 127.5 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 1890 | 820 | 2000 | 3410 | 7.4 |
| 29320EJN1 | 100 | 170 | 42 | 152.3 | 127.5 | 45 | 10.1 | +1.0 | 8.5 | +0.2 | 2.0 | 1240 | 462 | 2000 | 3540 | 3.5 |
| 29420EJN1 | 100 | 210 | 67 | 182.2 | 141.5 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 2390 | 1020 | 1800 | 3080 | 10.1 |
| 29322EJN1 | 110 | 190 | 48 | 171.1 | 140.0 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 1660 | 604 | 1800 | 3180 | 4.7 |
| 29422EJN1 | 110 | 230 | 73 | 199.4 | 155.5 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 2840 | 1200 | 1700 | 2810 | 13.2 |
| 29324EJN1 | 120 | 210 | 54 | 188.1 | 154.0 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 2070 | 768 | 1700 | 2890 | 7.2 |
| 29424EJN1 | 120 | 250 | 78 | 216.8 | 171.0 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 3320 | 1390 | 1500 | 2580 | 16.6 |
| 29326EJN1 | 130 | 225 | 58 | 203.4 | 165.5 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 2410 | 852 | 1600 | 2690 | 8.8 |
| 29426EJN1 | 130 | 270 | 85 | 234.4 | 184.5 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 3870 | 1600 | 1400 | 2390 | 20.9 |
| 29328EJN1 | 140 | 240 | 60 | 216.1 | 177.0 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 2710 | 970 | 1500 | 2510 | 10.2 |
| 29428EJN1 | 140 | 280 | 85 | 245.4 | 194.5 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 4110 | 1640 | 1300 | 2270 | 22.1 |
| 29330EJN1 | 150 | 250 | 60 | 223.9 | 190.0 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 2760 | 993 | 1400 | 2390 | 10.6 |
| 29430EJN1 | 150 | 300 | 90 | 262.9 | 207.5 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 4730 | 1860 | 1200 | 2120 | 27.0 |
| 29332EJN1 | 160 | 270 | 67 | 243.5 | 203.0 | 45 | 11.7 | +1.0 | 10.5 | +0.2 | 2.0 | 3370 | 1190 | 1300 | 2220 | 14.2 |
| 29432EJN1 | 160 | 320 | 95 | 279.3 | 223.5 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 5340 | 2100 | 1200 | 1990 | 32.0 |
| 29334EJN1 | 170 | 280 | 67 | 251.2 | 215.0 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 3430 | 1230 | 1200 | 2120 | 14.5 |
| 29434EJN1 | 170 | 340 | 103 | 297.7 | 236.0 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 6140 | 2380 | 1100 | 1870 | 39.7 |
| 29336EJN1 | 180 | 300 | 73 | 270.0 | 227.0 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 4130 | 1430 | 1200 | 1990 | 18.6 |
| 29436EJN1 | 180 | 360 | 109 | 315.9 | 250.0 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 7090 | 2660 | 990 | 1770 | 47.5 |
| 29338EJN1 | 190 | 320 | 78 | 285.6 | 243.5 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 4550 | 1620 | 1100 | 1870 | 22.5 |
| 29340EJN1 | 200 | 340 | 85 | 304.3 | 257.0 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 5370 | 1880 | 1000 | 1770 | 28.4 |
| 29440EJN1 | 200 | 400 | 122 | 350.7 | 277.5 | 45 | 12.7 | +2.0 | 10.5 | +0.2 | 2.0 | 8470 | 3210 | 900 | 1590 | 64.8 |
| 29344EJN1 | 220 | 360 | 85 | 326.3 | 273.5 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 5840 | 1950 | 960 | 1650 | 30.7 |
| 29348EJN1 | 240 | 380 | 85 | 345.1 | 295.5 | 45 | 12.7 | +1.4 | 10.5 | +0.2 | 2.0 | 6280 | 2040 | 870 | 1540 | 32.8 |
| 29448EJN1 | 240 | 440 | 122 | 391.6 | 322.0 | 45 | 15.0 | +2.0 | 12.5 | +0.4 | 2.5 | 9520 | 3410 | 770 | 1400 | 73.3 |
| 29352EJN1 | 260 | 420 | 95 | 382.2 | 324.0 | 45 | 15.0 | +2.0 | 12.5 | +0.4 | 2.5 | 8100 | 2580 | 790 | 1400 | 46.9 |
| 29452EJN1 | 260 | 480 | 132 | 427.9 | 346.0 | 45 | 15.0 | +2.0 | 12.5 | +0.4 | 2.5 | 11900 | 4160 | 690 | 1290 | 96.4 |
| 29360EJN1 | 300 | 480 | 109 | 434.1 | 372.0 | 45 | 15.0 | +2.0 | 12.5 | +0.4 | 2.5 | 9900 | 3150 | 690 | 1220 | 67.3 |
| 29460EJN1 | 300 | 540 | 145 | 485.0 | 392.0 | 45 | 20.0 | +2.0 | 15.5 | +0.4 | 3.0 | 15000 | 4990 | 600 | 1140 | 132.6 |
| 29364EJN1 | 320 | 500 | 109 | 460.0 | 391.0 | 45 | 15.0 | +2.0 | 12.5 | +0.4 | 2.5 | 10700 | 2830 | 650 | 1170 | 71.6 |
| 29464EJN1 | 320 | 580 | 155 | 520.0 | 419.0 | 45 | 20.0 | +2.0 | 15.5 | +0.4 | 3.0 | 17100 | 5640 | 560 | 1147 | 163.4 |
| 29468EMN1 | 340 | 620 | 170 | 550.0 | 431.0 | 45 | 20.0 | +2.0 | 15.5 | +0.4 | 3.0 | 22030 | 5920 | 490 | 1000 | 207.0 |
| 29372EMN1 | 360 | 560 | 122 | 511.0 | 428.0 | 45 | 20.0 | +2.0 | 15.5 | +0.4 | 3.0 | 15130 | 3630 | 540 | 1040 | 102.1 |
| 29280EJN1 | 400 | 540 | 85 | 503.2 | 458.0 | 45 | 20.0 | +2.0 | 15.5 | +0.4 | 3.0 | 8110 | 1930 | 660 | 1175 | 48.4 |
| 29480EMN1 | 400 | 710 | 185 | 632.0 | 501.0 | 45 | 25.0 | +2.0 | 20.5 | +0.4 | 3.0 | 28470 | 7330 | 410 | 860 | 290.4 |
| 29384EMN1 | 420 | 650 | 140 | 600.0 | 520.0 | 45 | 25.0 | +2.0 | 20.5 | +0.4 | 3.0 | 16000 | 4040 | 510 | 890 | 148.3 |
| 29484EMN1 | 420 | 730 | 185 | 670.0 | 545.0 | 45 | 25.0 | +2.0 | 20.5 | +0.4 | 3.0 | 26000 | 6780 | 430 | 830 | 295.4 |
| 294/500EMN1 | 500 | 870 | 224 | 779.0 | 620.0 | 45 | 32.0 | +2.0 | 20.5 | +0.4 | 3.0 | 42370 | 10360 | 320 | 700 | 544.0 |

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

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