

Thrust Bearings

└ Thrust Spherical Roller Bearings

| d   | Boundary Dimensions (mm) |     |        | Basic Load Ratings (N) |                 | Limiting Speeds (min <sup>-1</sup> )<br>Oil | Bearing Numbers | NSKHPS |
|-----|--------------------------|-----|--------|------------------------|-----------------|---|-----------------|--------|
|     | D                        | T   | r min. | C <sub>a</sub>         | C <sub>0a</sub> |   |                 |        |
| 60  | 130                      | 42  | 1.5    | 330000                 | 885000          | 2600  | 29412E          |        |
| 65  | 140                      | 45  | 2      | 405000                 | 1100000         | 2400  | 29413E          |        |
| 70  | 150                      | 48  | 2      | 450000                 | 1240000         | 2400  | 29414E          |        |
| 75  | 160                      | 51  | 2      | 515000                 | 1430000         | 2200  | 29415E          |        |
| 80  | 170                      | 54  | 2.1    | 575000                 | 1600000         | 2000  | 29416E          |        |
| 85  | 150                      | 39  | 1.5    | 330000                 | 1040000         | 2400  | 29317E          |        |
| 85  | 180                      | 58  | 2.1    | 630000                 | 1760000         | 1900  | 29417E          |        |
| 90  | 155                      | 39  | 1.5    | 350000                 | 1080000         | 2200  | 29318E          |        |
| 90  | 190                      | 60  | 2.1    | 695000                 | 1950000         | 1800  | 29418E          |        |
| 100 | 170                      | 42  | 1.5    | 410000                 | 1280000         | 2000  | 29320E          |        |
| 100 | 210                      | 67  | 3      | 840000                 | 2400000         | 1600  | 29420E          |        |
| 110 | 190                      | 48  | 2      | 530000                 | 1710000         | 1800  | 29322E          |        |
| 110 | 230                      | 73  | 3      | 1010000                | 2930000         | 1500  | 29422E          |        |
| 120 | 210                      | 54  | 2.1    | 645000                 | 2100000         | 1600  | 29324E          |        |
| 120 | 250                      | 78  | 4      | 1160000                | 3400000         | 1400  | 29424E          |        |
| 130 | 225                      | 58  | 2.1    | 740000                 | 2450000         | 1500  | 29326E          |        |
| 130 | 270                      | 85  | 4      | 1330000                | 3900000         | 1200  | 29426E          |        |
| 140 | 240                      | 60  | 2.1    | 840000                 | 2810000         | 1400  | 29328E          |        |
| 140 | 280                      | 85  | 4      | 1370000                | 4200000         | 1200  | 29428E          |        |
| 150 | 250                      | 60  | 2.1    | 870000                 | 2900000         | 1400  | 29330E          |        |
| 150 | 300                      | 90  | 4      | 1580000                | 4900000         | 1100  | 29430E          |        |
| 160 | 270                      | 67  | 3      | 1010000                | 3400000         | 1300  | 29332E          |        |
| 160 | 320                      | 95  | 5      | 1740000                | 5400000         | 1100  | 29432E          |        |
| 170 | 280                      | 67  | 3      | 1050000                | 3500000         | 1200  | 29334E          |        |
| 170 | 340                      | 103 | 5      | 1680000                | 5800000         | 1000  | 29434           |        |
| 180 | 300                      | 73  | 3      | 1230000                | 4200000         | 1100  | 29336E          |        |
| 180 | 360                      | 109 | 5      | 1870000                | 6500000         | 900   | 29436           |        |
| 190 | 320                      | 78  | 4      | 1370000                | 4700000         | 1100  | 29338E          |        |
| 190 | 380                      | 115 | 5      | 2100000                | 7450000         | 850   | 29438           |        |
| 200 | 280                      | 48  | 2      | 540000                 | 2310000         | 1500  | 29240           |        |
| 200 | 340                      | 85  | 4      | 1570000                | 5450000         | 1000  | 29340E          |        |
| 200 | 400                      | 122 | 5      | 2290000                | 8150000         | 800   | 29440           |        |
| 220 | 300                      | 48  | 2      | 560000                 | 2500000         | 1400  | 29244           |        |
| 220 | 360                      | 85  | 4      | 1340000                | 5200000         | 950   | 29344           |        |
| 220 | 420                      | 122 | 6      | 2350000                | 8650000         | 800   | 29444           |        |
| 240 | 340                      | 60  | 2.1    | 800000                 | 3450000         | 1200  | 29248           |        |
| 240 | 380                      | 85  | 4      | 1360000                | 5400000         | 950   | 29348           |        |
| 240 | 440                      | 122 | 6      | 2420000                | 9100000         | 750   | 29448           |        |
| 260 | 360                      | 60  | 2.1    | 855000                 | 3850000         | 1200  | 29252           |        |
| 260 | 420                      | 95  | 5      | 1700000                | 6800000         | 800   | 29352           |        |
| 260 | 480                      | 132 | 6      | 2820000                | 10700000        | 710   | 29452           |        |
| 280 | 380                      | 60  | 2.1    | 885000                 | 4100000         | 1100  | 29256           |        |
| 280 | 440                      | 95  | 5      | 1830000                | 7650000         | 800   | 29356           |        |
| 280 | 520                      | 145 | 6      | 3400000                | 13100000        | 630   | 29456           |        |
| 300 | 420                      | 73  | 3      | 1160000                | 5150000         | 950   | 29260           |        |
| 300 | 480                      | 109 | 5      | 2190000                | 9100000         | 710   | 29360           |        |

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| d   | Boundary Dimensions (mm) |     |           | Basic Load Ratings (N) |                 | Limiting Speeds (min <sup>-1</sup> )<br>Oil | Bearing Numbers | NSKHPS |
|-----|--------------------------|-----|-----------|------------------------|-----------------|---|-----------------|--------|
|     | D                        | T   | r<br>min. | C <sub>a</sub>         | C <sub>0a</sub> |   |                 |        |
| 300 | 540                      | 145 | 6         | 3500000                | 13700000        | 630   | 29460           |        |
| 320 | 440                      | 73  | 3         | 1190000                | 5450000         | 950   | 29264           |        |
| 320 | 500                      | 109 | 5         | 2230000                | 9400000         | 670   | 29364           |        |
| 320 | 580                      | 155 | 7.5       | 3650000                | 14600000        | 560   | 29464           |        |
| 340 | 460                      | 73  | 3         | 1230000                | 5750000         | 900   | 29268           |        |
| 340 | 540                      | 122 | 5         | 2640000                | 11200000        | 630   | 29368           |        |
| 340 | 620                      | 170 | 7.5       | 4400000                | 17400000        | 530   | 29468           |        |
| 360 | 500                      | 85  | 4         | 1550000                | 7300000         | 800   | 29272           |        |
| 360 | 560                      | 122 | 5         | 2670000                | 11500000        | 600   | 29372           |        |
| 360 | 640                      | 170 | 7.5       | 4200000                | 17200000        | 500   | 29472           |        |
| 380 | 520                      | 85  | 4         | 1620000                | 7800000         | 800   | 29276           |        |
| 380 | 600                      | 132 | 6         | 3300000                | 14500000        | 560   | 29376           |        |
| 380 | 670                      | 175 | 7.5       | 4800000                | 19500000        | 480   | 29476           |        |
| 400 | 540                      | 85  | 4         | 1640000                | 8000000         | 750   | 29280           |        |
| 400 | 620                      | 132 | 6         | 3250000                | 14500000        | 530   | 29380           |        |
| 400 | 710                      | 185 | 7.5       | 5400000                | 22100000        | 450   | 29480           |        |
| 420 | 580                      | 95  | 5         | 2010000                | 9800000         | 670   | 29284           |        |
| 420 | 650                      | 140 | 6         | 3500000                | 15700000        | 500   | 29384           |        |
| 420 | 730                      | 185 | 7.5       | 5650000                | 23500000        | 450   | 29484           |        |
| 440 | 600                      | 95  | 5         | 2030000                | 10100000        | 670   | 29288           |        |
| 440 | 680                      | 145 | 6         | 3750000                | 16700000        | 480   | 29388           |        |
| 440 | 780                      | 206 | 9.5       | 6550000                | 27200000        | 400   | 29488           |        |
| 460 | 620                      | 95  | 5         | 2060000                | 10300000        | 670   | 29292           |        |
| 460 | 710                      | 150 | 6         | 4100000                | 18400000        | 450   | 29392           |        |
| 460 | 800                      | 206 | 9.5       | 6750000                | 28600000        | 380   | 29492           |        |
| 480 | 650                      | 103 | 5         | 2370000                | 12100000        | 600   | 29296           |        |
| 480 | 730                      | 150 | 6         | 4150000                | 19000000        | 450   | 29396           |        |
| 480 | 850                      | 224 | 9.5       | 7200000                | 31000000        | 360   | 29496           |        |
| 500 | 670                      | 103 | 5         | 2390000                | 12400000        | 600   | 292/500         |        |
| 500 | 750                      | 150 | 6         | 4350000                | 20400000        | 450   | 293/500         |        |
| 500 | 870                      | 224 | 9.5       | 7850000                | 33000000        | 340   | 294/500         |        |