

# HMS INDUSTRIES

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## 200 Series – Cylindrical Roller Bearings

| Bearing No. | Bore (d) |         | Outer Diameter (D) |         | Width (B) |        | Fillet Radius |      |                   |      | Outer Ring I.D. (D <sub>i</sub> ) |         | Inner Ring O.D. (d <sub>i</sub> ) |         | Shoulder Height (J) |        | Basic Load Ratings lbs |                       | Weight lbs |
|-------------|----------|---------|--------------------|---------|-----------|--------|---------------|------|-------------------|------|-----------------------------------|---------|-----------------------------------|---------|---------------------|--------|------------------------|-----------------------|------------|
|             | mm       | in      | mm                 | in      | mm        | in     | (r)           |      | (r <sub>i</sub> ) |      | mm                                | in      | mm                                | in      | mm                  | in     | Dynamic C              | Static C <sub>0</sub> |            |
|             |          |         |                    |         |           |        | mm            | in   | mm                | in   |                                   |         |                                   |         |                     |        |                        |                       |            |
| 204         | 20       | .7874   | 47                 | 1.8504  | 14        | .5512  | 1             | .039 | .6                | .024 | 40                                | 1.5748  | 27                                | 1.063   | 30                  | 1.181  | 6,200                  | 5,600                 | 0.249      |
| 205         | 25       | .9843   | 52                 | 2.0472  | 15        | .5906  | 1             | .039 | .6                | .024 | 45                                | 1.7717  | 32                                | 1.2598  | 35                  | 1.378  | 6,550                  | 6,500                 | 0.298      |
| 206         | 30       | 1.1811  | 62                 | 2.4409  | 16        | .6299  | 1             | .039 | .6                | .024 | 53.5                              | 2.1063  | 38.5                              | 1.5157  | 41.8                | 1.646  | 8,800                  | 8,300                 | 0.452      |
| 207         | 35       | 1.378   | 72                 | 2.8346  | 17        | .6693  | 1.5           | .059 | .6                | .024 | 61.8                              | 2.4331  | 43.8                              | 1.7244  | 47.6                | 1.874  | 11,200                 | 11,200                | 0.666      |
| 208         | 40       | 1.5748  | 80                 | 3.1496  | 18        | .7087  | 1.5           | .059 | 1.5               | .059 | 70                                | 2.7559  | 50                                | 1.9685  | 54.2                | 2.134  | 12,000                 | 11,800                | 0.836      |
| 209         | 45       | 1.7717  | 85                 | 3.3465  | 19        | .748   | 1.5           | .059 | 1.5               | .059 | 75                                | 2.9528  | 55                                | 2.1654  | 59                  | 2.323  | 13,700                 | 14,300                | 0.957      |
| 210         | 50       | 1.9685  | 90                 | 3.5433  | 20        | .7874  | 1.5           | .059 | 1.5               | .059 | 80.4                              | 3.1654  | 60.4                              | 2.378   | 64.6                | 2.543  | 14,300                 | 15,300                | 1.080      |
| 211         | 55       | 2.1654  | 100                | 3.937   | 21        | .8268  | 2             | .079 | 1.5               | .059 | 88.5                              | 3.4843  | 66.5                              | 2.6181  | 70.8                | 2.787  | 18,600                 | 21,200                | 1.460      |
| 212         | 60       | 2.3622  | 110                | 4.3307  | 22        | .8661  | 2             | .079 | 2                 | .079 | 97.5                              | 3.8386  | 73.5                              | 2.8937  | 78.4                | 3.087  | 21,200                 | 23,200                | 1.810      |
| 213         | 65       | 2.5591  | 120                | 4.7244  | 23        | .9055  | 2             | .079 | 2                 | .079 | 105.6                             | 4.1575  | 79.6                              | 3.1339  | 84.8                | 3.339  | 24,500                 | 27,000                | 2.290      |
| 214         | 70       | 2.7559  | 125                | 4.9213  | 24        | .9449  | 2             | .079 | 2                 | .079 | 110.5                             | 4.3504  | 84.5                              | 3.3268  | 89.6                | 3.528  | 27,000                 | 31,000                | 2.560      |
| 215         | 75       | 2.9528  | 130                | 5.1181  | 25        | .9843  | 2             | .079 | 2                 | .079 | 116.5                             | 4.5866  | 88.5                              | 3.4843  | 94                  | 3.701  | 29,000                 | 35,500                | 2.800      |
| 216         | 80       | 3.1496  | 140                | 5.5118  | 26        | 1.0236 | 2.5           | .098 | 2.5               | .098 | 125.3                             | 4.9331  | 95.3                              | 3.752   | 101.2               | 3.984  | 31,500                 | 38,000                | 3.400      |
| 217         | 85       | 3.3465  | 150                | 5.9055  | 28        | 1.1024 | 2.5           | .098 | 2.5               | .098 | 133.8                             | 5.2677  | 101.8                             | 4.0079  | 108.2               | 4.26   | 36,500                 | 44,000                | 4.210      |
| 218         | 90       | 3.5433  | 160                | 6.2992  | 30        | 1.1811 | 2.5           | .098 | 2.5               | .098 | 143                               | 5.6299  | 107                               | 4.2126  | 114.2               | 4.496  | 40,500                 | 49,000                | 5.200      |
| 219         | 95       | 3.7402  | 170                | 6.6929  | 32        | 1.2598 | 2.5           | .098 | 2.5               | .098 | 151.5                             | 5.9646  | 113.5                             | 4.4685  | 121                 | 4.764  | 49,000                 | 60,000                | 6.350      |
| 220         | 100      | 3.937   | 180                | 7.0866  | 34        | 1.3386 | 2.5           | .098 | 2.5               | .098 | 160                               | 6.2992  | 120                               | 4.7244  | 128                 | 5.039  | 56,000                 | 68,000                | 7.670      |
| 221         | 105      | 4.1339  | 190                | 7.4803  | 36        | 1.4173 | 2.5           | .098 | 2.5               | .098 | 168.8                             | 6.6457  | 126.8                             | 4.9921  | 135                 | 5.315  | 58,500                 | 72,000                | 10.300     |
| 222         | 110      | 4.3307  | 200                | 7.874   | 38        | 1.4961 | 2.5           | .098 | 2.5               | .098 | 178.5                             | 7.0276  | 132.5                             | 5.2165  | 141.5               | 5.571  | 65,500                 | 81,500                | 10.700     |
| 224         | 120      | 4.7244  | 215                | 8.4646  | 40        | 1.5748 | 2.5           | .098 | 2.5               | .098 | 191.5                             | 7.5394  | 143.5                             | 5.6496  | 153                 | 6.024  | 75,000                 | 93,000                | 12.700     |
| 226         | 130      | 5.1181  | 230                | 9.0551  | 40        | 1.5748 | 3             | .118 | 3                 | .118 | 204                               | 8.0315  | 156                               | 6.1417  | 165.5               | 6.516  | 80,000                 | 100,000               | 14.300     |
| 228         | 140      | 5.5118  | 250                | 9.8425  | 42        | 1.6535 | 3             | .118 | 3                 | .118 | 221                               | 8.7008  | 169                               | 6.6535  | 179.5               | 7.067  | 86,500                 | 114,000               | 20.900     |
| 230         | 150      | 5.9055  | 270                | 10.6299 | 45        | 1.7717 | 3             | .118 | 3                 | .118 | 238                               | 9.3701  | 182                               | 7.1654  | 193                 | 7.598  | 100,000                | 132,000               | 26.500     |
| 232         | 160      | 6.2992  | 290                | 11.4173 | 48        | 1.8898 | 3             | .118 | 3                 | .118 | 255                               | 10.0394 | 195                               | 7.6772  | 207                 | 8.15   | 112,000                | 150,000               | 32.800     |
| 234         | 170      | 6.6929  | 310                | 12.2047 | 52        | 2.0472 | 4             | .157 | 4                 | .157 | 272                               | 10.7087 | 208                               | 8.189   | 220.5               | 8.681  | 132,000                | 176,000               | 40.300     |
| 236         | 180      | 7.0866  | 320                | 12.5984 | 52        | 2.0472 | 4             | .157 | 4                 | .157 | 282                               | 11.1024 | 218                               | 8.5827  | 230.5               | 9.075  | 137,000                | 186,000               | 42.100     |
| 238         | 190      | 7.4803  | 340                | 13.3858 | 55        | 2.1654 | 4             | .157 | 4                 | .157 | 299                               | 11.7717 | 231                               | 9.0945  | 244.5               | 9.626  | 153,000                | 208,000               | 50.900     |
| 240         | 200      | 7.874   | 360                | 14.1732 | 58        | 2.2833 | 4             | .157 | 4                 | .157 | 316                               | 12.4409 | 244                               | 9.6063  | 258                 | 10.137 | 170,000                | 232,000               | 60.600     |
| 244         | 220      | 8.6614  | 400                | 15.748  | 65        | 2.5591 | 4             | .157 | 4                 | .157 | 350                               | 13.7795 | 270                               | 10.6299 | 286                 | 11.26  | 166,000                | 236,000               | 82.200     |
| 248         | 240      | 9.4488  | 440                | 17.3228 | 72        | 2.8346 | 4             | .157 | 4                 | .157 | 385                               | 15.1575 | 295                               | 11.6142 | 313                 | 12.323 | 212,000                | 300,000               | 111.000    |
| 252         | 260      | 10.2362 | 480                | 18.8976 | 80        | 3.1496 | 5             | .197 | 5                 | .197 | 420                               | 16.5354 | 320                               | 12.5984 | 340                 | 13.386 | 255,000                | 365,000               | 148.000    |
| 256         | 280      | 11.0236 | 500                | 19.685  | 80        | 3.1496 | 5             | .197 | 5                 | .197 | 440                               | 17.3228 | 340                               | 13.3858 | 360                 | 14.173 | 255,000                | 375,000               | 155.000    |
| 260         | 300      | 11.811  | 540                | 21.2598 | 85        | 3.3465 | 5             | .197 | 5                 | .197 | 476                               | 18.7402 | 364                               | 14.3307 | 387                 | 15.236 | 310,000                | 455,000               | 194.000    |
| 264         | 320      | 12.5984 | 580                | 22.8346 | 92        | 3.622  | 5             | .197 | 5                 | .197 | 510                               | 20.0787 | 390                               | 15.3543 | 415                 | 16.339 | 355,000                | 530,000               | 245.000    |

