

Deep groove ball bearings

| Open type (Inch series) | | | | | | | | | |
|-------------------------|-------------------------|--------|-------|-----------|---------------------|-------------------------|--------|-------|-----------|
| Bearing Designation | Boundary Dimensions(mm) | | | Mass (kg) | Bearing Designation | Boundary Dimensions(mm) | | | Mass (kg) |
| | d | D | B | | | d | D | B | |
| R1-4 | 1.984 | 6.350 | 2.38 | 0.40 | R1458 | 15.875 | 22.225 | 3.967 | 4.70 |
| R133 | 2.380 | 4.762 | 1.588 | 0.10 | R10 | 15.875 | 34.925 | 5.54 | 23.50 |
| R1-5 | 2.380 | 7.938 | 2.779 | 0.60 | 1623 | 15.88 | 34.93 | 11.11 | 40 |
| R144 | 3.175 | 6.350 | 2.38 | 0.27 | 1628 | 15.88 | 41.28 | 12.70 | 72 |
| R2-5 | 3.175 | 7.938 | 2.779 | 0.50 | 1633 | 15.88 | 44.45 | 12.70 | 90 |
| R2-6 | 3.175 | 9.525 | 2.779 | 0.96 | RLS5 | 15.88 | 39.69 | 11.11 | 60 |
| R2 | 3.175 | 9.525 | 3.967 | 1.04 | RMS5 | 15.88 | 46.04 | 15.88 | 110 |
| R2A | 3.175 | 12.700 | 4.366 | 3.30 | R1634 | 19.05 | 25.40 | 3.97 | 5 |
| R155 | 3.967 | 7.938 | 2.779 | 0.51 | R12 | 19.05 | 41.28 | 7.94 | 53.1 |
| R156 | 4.762 | 7.938 | 2.779 | 0.40 | 1630 | 19.05 | 41.28 | 12.70 | 65 |
| R166 | 4.762 | 9.525 | 3.175 | 0.81 | 1635 | 19.05 | 44.45 | 12.70 | 85 |
| R3 | 4.762 | 12.700 | 3.967 | 2.21 | 1638 | 19.05 | 50.80 | 14.29 | 120 |
| R3A | 4.762 | 15.875 | 4.978 | 45.00 | RLS6 | 19.05 | 47.63 | 14.29 | 110 |
| 1601 | 4.762 | 17.462 | 6.35 | 4.75 | RMS6 | 19.05 | 50.80 | 17.46 | 160 |
| R168 | 6.350 | 9.525 | 3.175 | 0.57 | R14 | 22.23 | 47.63 | 9.53 | 71 |
| R188 | 6.350 | 12.700 | 3.175 | 1.60 | 1640 | 22.23 | 50.80 | 14.29 | 110 |
| R4 | 6.350 | 15.875 | 4.978 | 4.46 | RLS7 | 22.23 | 50.80 | 14.29 | 130 |
| R4A | 6.350 | 19.050 | 5.558 | 7.48 | RMS7 | 22.23 | 57.15 | 17.46 | 200 |
| 1602 | 6.350 | 17.462 | 6.35 | 6.00 | R16 | 25.40 | 50.80 | 9.53 | 85 |
| R1810 | 7.938 | 12.700 | 3.967 | 1.39 | 1641 | 25.40 | 50.80 | 14.29 | 100 |
| 1603 | 7.938 | 22.225 | 7.144 | 10.00 | RLS8 | 25.40 | 57.15 | 15.88 | 170 |
| 1605 | 7.938 | 23.019 | 7.938 | 12.00 | RMS8 | 25.40 | 63.50 | 19.05 | 250 |
| R6 | 9.525 | 22.225 | 5.558 | 9.02 | R18 | 28.58 | 53.98 | 9.53 | 90 |
| R1038 | 9.525 | 15.875 | 3.967 | 2.71 | 1652 | 28.58 | 63.50 | 15.88 | 210 |
| 1604 | 9.525 | 22.225 | 7.144 | 15.00 | RLS9 | 28.58 | 63.50 | 15.88 | 210 |
| 1606 | 9.525 | 23.019 | 7.938 | 14.00 | RMS9 | 28.58 | 71.44 | 20.64 | 380 |
| 1614 | 9.525 | 28.575 | 9.525 | 35.00 | R20 | 31.75 | 57.15 | 9.53 | 95 |
| 1607 | 11.112 | 23.019 | 7.938 | 16.00 | 1654 | 31.75 | 63.50 | 15.88 | 190 |
| 1615 | 11.112 | 28.575 | 9.525 | 32.00 | 1657 | 31.75 | 65.09 | 17.46 | 220 |
| 1620 | 11.112 | 34.925 | 11.11 | 50.00 | RLS10 | 31.75 | 69.85 | 17.46 | 280 |
| R1212 | 12.700 | 19.050 | 3.967 | 3.49 | RMS10 | 31.75 | 79.38 | 22.23 | 510 |
| R8 | 12.700 | 28.575 | 6.35 | 11.60 | 1658 | 33.34 | 65.09 | 17.46 | 200 |
| 1616 | 12.700 | 28.575 | 9.525 | 30.00 | R22 | 34.93 | 63.50 | 11.11 | 106 |
| 1621 | 12.700 | 34.925 | 11.11 | 48.00 | RLS11 | 34.93 | 76.20 | 17.46 | 370 |
| RLS4 | 12.700 | 33.338 | 9.525 | 30.00 | R24 | 38.10 | 66.68 | 11.11 | 141 |
| 1622 | 14.288 | 34.925 | 11.11 | 46.00 | RLS12 | 38.10 | 82.55 | 19.05 | 430 |

| Open type (Metric series) | | | | | | | | | |
|---------------------------|-------------------------|---|-----|-----------|---------------------|-------------------------|----|-----|-----------|
| Bearing Designation | Boundary Dimensions(mm) | | | Mass (kg) | Bearing Designation | Boundary Dimensions(mm) | | | Mass (kg) |
| | d | D | B | | | d | D | B | |
| 681 | 1 | 3 | 1 | 0.03 | 625 | 5 | 16 | 5 | 4.950 |
| 691 | 1 | 4 | 1.6 | 0.11 | 635 | 5 | 19 | 6 | 8.500 |
| 681X | 1.5 | 4 | 1.2 | 0.1 | MR106 | 6 | 10 | 2.5 | 0.550 |
| 691X | 1.5 | 5 | 2 | 0.2 | MR126 | 6 | 12 | 3 | 1.250 |
| 601X | 1.5 | 6 | 2.5 | 0.31 | 686 | 6 | 13 | 3.5 | 1.870 |
| 682 | 2 | 5 | 1.5 | 0.15 | 696 | 6 | 15 | 5 | 3.850 |
| MR52 | 2 | 5 | 2 | 0.14 | 606 | 6 | 17 | 6 | 5.940 |
| 692 | 2 | 6 | 2.3 | 0.28 | 626 | 6 | 19 | 6 | 8.120 |
| MR62 | 2 | 6 | 2.5 | 0.28 | 636 | 6 | 22 | 7 | 13.900 |

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|-------|-----|----|-----|--------|-------|----|-----|-----|--------|
| MR72 | 2 | 7 | 2.8 | 0.43 | MR117 | 7 | 11 | 2.5 | 0.590 |
| 602 | 2 | 7 | 2.8 | 0.5 | MR137 | 7 | 13 | 3 | 1.520 |
| 682X | 2.5 | 6 | 1.8 | 0.2 | 687 | 7 | 14 | 3.5 | 2.030 |
| 692X | 2.5 | 7 | 2.5 | 0.4 | 697 | 7 | 17 | 5 | 5.260 |
| MR82X | 2.5 | 8 | 2.5 | 0.52 | 607 | 7 | 19 | 6 | 7.800 |
| 602X | 2.5 | 8 | 2.8 | 0.61 | 627 | 7 | 22 | 7 | 12.700 |
| MR63 | 3 | 6 | 2 | 0.2 | 637 | 7 | 26 | 9 | 24.200 |
| 683 | 3 | 7 | 2 | 0.32 | MR128 | 8 | 12 | 2.5 | 0.700 |
| MR83 | 3 | 8 | 2.5 | 0.51 | MR148 | 8 | 14 | 3.5 | 1.900 |
| 693 | 3 | 8 | 3 | 0.6 | 688 | 8 | 16 | 4 | 3.110 |
| MR93 | 3 | 9 | 2.5 | 0.75 | 698 | 8 | 19 | 6 | 7.120 |
| 603 | 3 | 9 | 3 | 0.84 | 608 | 8 | 22 | 7 | 11.800 |
| 623 | 3 | 10 | 4 | 1.45 | 628 | 8 | 24 | 8 | 17.100 |
| 633 | 3 | 13 | 5 | 3.27 | 638 | 8 | 28 | 9 | 28.100 |
| MR74 | 4 | 7 | 2 | 0.25 | 679 | 9 | 14 | 3 | 1.350 |
| MR84 | 4 | 8 | 2 | 0.39 | 689 | 9 | 17 | 4 | 3.410 |
| 684 | 4 | 9 | 2.5 | 0.65 | 699 | 9 | 20 | 6 | 8.380 |
| MR104 | 4 | 10 | 3 | 0.96 | 609 | 9 | 24 | 7 | 14.700 |
| 694 | 4 | 11 | 4 | 1.69 | 629 | 9 | 26 | 8 | 19.000 |
| 604 | 4 | 12 | 4 | 2.19 | 639 | 9 | 30 | 10 | 36.200 |
| 624 | 4 | 13 | 5 | 3.1 | 6700 | 10 | 15 | 4 | 0.001 |
| 634 | 4 | 16 | 5 | 5.24 | 6800 | 10 | 19 | 5 | 0.005 |
| MR85 | 5 | 8 | 2 | 0.25 | 6900 | 10 | 22 | 6 | 0.010 |
| MR95 | 5 | 9 | 2.5 | 0.54 | 6000 | 10 | 26 | 8 | 0.019 |
| MR105 | 5 | 10 | 3 | 0.91 | 6200 | 10 | 30 | 9 | 0.032 |
| MR115 | 5 | 11 | 4 | 1.6 | 6300 | 10 | 35 | 11 | 0.053 |
| 685 | 5 | 11 | 3 | 1.16 | 6701 | 12 | 18 | 4 | 0.003 |
| 695 | 5 | 13 | 4 | 2.39 | 6801 | 12 | 21 | 5 | 0.006 |
| 605 | 5 | 14 | 5 | 3.46 | 6901 | 12 | 24 | 6 | 0.011 |
| 16001 | 12 | 28 | 7 | 0.024 | 6006 | 30 | 55 | 13 | 0.116 |
| 6001 | 12 | 28 | 8 | 0.022 | 6206 | 30 | 62 | 16 | 0.199 |
| 6201 | 12 | 32 | 10 | 0.037 | 6306 | 30 | 72 | 19 | 0.346 |
| 6301 | 12 | 37 | 12 | 0.06 | 6406 | 30 | 90 | 23 | 0.735 |
| 6702 | 15 | 21 | 4 | 0.0035 | 60/32 | 32 | 58 | 13 | 0.127 |
| 6802 | 15 | 24 | 5 | 0.007 | 62/32 | 32 | 65 | 17 | 0.228 |
| 6902 | 15 | 28 | 7 | 0.017 | 63/32 | 32 | 75 | 20 | 0.437 |
| 16002 | 15 | 32 | 8 | 0.025 | 6707 | 35 | 44 | 5 | 0.015 |
| 6002 | 15 | 32 | 9 | 0.03 | 6807 | 35 | 47 | 7 | 0.030 |
| 6202 | 15 | 35 | 11 | 0.045 | 6907 | 35 | 55 | 10 | 0.073 |
| 6302 | 15 | 42 | 13 | 0.082 | 16007 | 35 | 62 | 9 | 0.110 |
| 6703 | 17 | 23 | 4 | 0.004 | 6007 | 35 | 62 | 14 | 0.155 |
| 6803 | 17 | 26 | 5 | 0.008 | 6207 | 35 | 72 | 17 | 0.288 |
| 6903 | 17 | 30 | 7 | 0.018 | 6307 | 35 | 80 | 21 | 0.457 |
| 16003 | 17 | 35 | 8 | 0.032 | 6407 | 35 | 100 | 25 | 0.952 |
| 6003 | 17 | 35 | 10 | 0.039 | 6708 | 40 | 50 | 6 | 0.023 |
| 6203 | 17 | 40 | 12 | 0.065 | 6808 | 40 | 52 | 7 | 0.033 |
| 6303 | 17 | 47 | 14 | 0.115 | 6908 | 40 | 62 | 12 | 0.112 |
| 6403 | 17 | 62 | 17 | 2.7 | 16008 | 40 | 68 | 9 | 0.125 |
| 6704 | 20 | 27 | 4 | 0.006 | 6008 | 40 | 68 | 15 | 0.192 |
| 6804 | 20 | 32 | 7 | 0.018 | 6208 | 40 | 80 | 18 | 0.366 |
| 6904 | 20 | 37 | 9 | 0.036 | 6308 | 40 | 90 | 23 | 0.633 |
| 16004 | 20 | 42 | 8 | 0.05 | 6408 | 40 | 110 | 27 | 1.230 |
| 6004 | 20 | 42 | 12 | 0.069 | 6709 | 45 | 55 | 6 | 0.025 |
| 6204 | 20 | 47 | 14 | 0.106 | 6809 | 45 | 58 | 7 | 0.040 |
| 6304 | 20 | 52 | 15 | 0.144 | 6909 | 45 | 68 | 12 | 0.132 |

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|-------|----|-----|----|--------|-------|-----|-----|----|--------|
| 6404 | 20 | 72 | 19 | 0.4 | 16009 | 45 | 75 | 10 | 0.170 |
| 60/22 | 22 | 44 | 12 | 0.073 | 6009 | 45 | 75 | 16 | 0.245 |
| 62/22 | 22 | 50 | 14 | 0.118 | 6209 | 45 | 85 | 19 | 0.407 |
| 63/22 | 22 | 56 | 16 | 0.201 | 6309 | 45 | 100 | 25 | 0.833 |
| 6705 | 25 | 32 | 4 | 0.0071 | 6409 | 45 | 120 | 29 | 1.530 |
| 6805 | 25 | 37 | 7 | 0.022 | 6710 | 50 | 62 | 6 | 0.064 |
| 6905 | 25 | 42 | 9 | 0.041 | 6810 | 50 | 65 | 7 | 0.052 |
| 16005 | 25 | 47 | 8 | 0.06 | 6910 | 50 | 72 | 12 | 0.133 |
| 6005 | 25 | 47 | 12 | 0.08 | 16010 | 50 | 80 | 10 | 0.180 |
| 6205 | 25 | 52 | 15 | 0.128 | 6010 | 50 | 80 | 16 | 0.261 |
| 6305 | 25 | 62 | 17 | 0.232 | 6210 | 50 | 90 | 20 | 0.463 |
| 6405 | 25 | 80 | 21 | 0.53 | 6301 | 50 | 110 | 27 | 1.070 |
| 60/28 | 28 | 52 | 12 | 0.097 | 6410 | 50 | 130 | 31 | 1.880 |
| 62/28 | 28 | 58 | 16 | 0.173 | 6811 | 55 | 72 | 9 | 0.083 |
| 63/28 | 28 | 68 | 18 | 0.328 | 6911 | 55 | 80 | 13 | 0.185 |
| 6706 | 30 | 37 | 4 | 0.0085 | 16011 | 55 | 90 | 11 | 0.260 |
| 6806 | 30 | 42 | 7 | 0.026 | 6011 | 55 | 90 | 18 | 0.385 |
| 6906 | 30 | 47 | 9 | 0.045 | 6211 | 55 | 100 | 21 | 0.607 |
| 16006 | 30 | 55 | 9 | 0.085 | 6311 | 55 | 120 | 29 | 1.370 |
| 6411 | 55 | 140 | 33 | 2.29 | 16018 | 90 | 140 | 16 | 0.848 |
| 6812 | 60 | 78 | 10 | 0.104 | 6018 | 90 | 140 | 24 | 1.160 |
| 6912 | 60 | 85 | 13 | 0.192 | 6218 | 90 | 160 | 30 | 2.150 |
| 16012 | 60 | 95 | 11 | 0.28 | 6318 | 90 | 190 | 43 | 4.910 |
| 6012 | 60 | 95 | 18 | 0.415 | 6418 | 90 | 225 | 54 | 9.780 |
| 6212 | 60 | 110 | 22 | 0.783 | 6919 | 95 | 130 | 18 | 0.705 |
| 6312 | 60 | 130 | 31 | 1.7 | 16019 | 95 | 145 | 16 | 0.885 |
| 6412 | 60 | 150 | 35 | 0.3 | 6019 | 95 | 145 | 24 | 1.210 |
| 6813 | 65 | 85 | 10 | 0.126 | 9219 | 95 | 170 | 32 | 2.620 |
| 6913 | 65 | 90 | 13 | 0.211 | 6319 | 95 | 200 | 45 | 5.670 |
| 16013 | 65 | 100 | 11 | 0.3 | 6820 | 100 | 125 | 13 | 0.309 |
| 6013 | 65 | 100 | 18 | 0.435 | 6920 | 100 | 140 | 20 | 0.960 |
| 6213 | 65 | 120 | 23 | 0.99 | 16020 | 100 | 150 | 16 | 0.910 |
| 6313 | 65 | 140 | 33 | 2.08 | 6020 | 100 | 150 | 24 | 1.250 |
| 6413 | 65 | 160 | 37 | 3.3 | 6220 | 100 | 180 | 34 | 3.140 |
| 6814 | 70 | 90 | 10 | 0.134 | 6320 | 100 | 215 | 47 | 7.000 |
| 6914 | 70 | 100 | 16 | 0.342 | 6921 | 105 | 145 | 20 | 1.000 |
| 16014 | 70 | 110 | 13 | 0.433 | 16021 | 105 | 160 | 18 | 1.200 |
| 6014 | 70 | 110 | 20 | 0.602 | 6021 | 105 | 160 | 26 | 1.590 |
| 6214 | 70 | 125 | 24 | 1.07 | 6221 | 105 | 190 | 36 | 3.700 |
| 6314 | 70 | 150 | 35 | 2.52 | 6321 | 105 | 225 | 49 | 8.050 |
| 6414 | 70 | 180 | 42 | 4.83 | 6822 | 110 | 140 | 16 | 0.606 |
| 6815 | 75 | 95 | 10 | 0.142 | 6922 | 110 | 150 | 20 | 1.040 |
| 6915 | 75 | 105 | 16 | 0.363 | 16022 | 110 | 170 | 19 | 1.460 |
| 16015 | 75 | 115 | 13 | 0.457 | 6022 | 110 | 170 | 28 | 1.960 |
| 6015 | 75 | 115 | 20 | 0.638 | 6222 | 110 | 200 | 38 | 4.360 |
| 6215 | 75 | 130 | 25 | 1.18 | 6322 | 110 | 240 | 50 | 9.540 |
| 6315 | 75 | 160 | 37 | 3.02 | 6824 | 120 | 150 | 16 | 0.655 |
| 6415 | 75 | 190 | 45 | 5.87 | 6924 | 120 | 165 | 22 | 1.410 |
| 6816 | 80 | 100 | 10 | 0.15 | 16024 | 120 | 180 | 19 | 1.800 |
| 6916 | 80 | 110 | 16 | 0.382 | 6024 | 120 | 180 | 28 | 2.070 |
| 16016 | 80 | 125 | 14 | 0.597 | 6224 | 120 | 215 | 40 | 5.150 |
| 6012 | 80 | 125 | 22 | 0.85 | 6324 | 120 | 260 | 55 | 12.500 |
| 6216 | 80 | 140 | 26 | 1.4 | 6826 | 130 | 165 | 18 | 0.939 |
| 6316 | 80 | 170 | 39 | 3.59 | 6926 | 130 | 180 | 24 | 1.860 |
| 6416 | 80 | 200 | 48 | 6.84 | 16026 | 130 | 200 | 22 | 2.690 |

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|-------|----|-----|----|-------|-------|-----|-----|----|--------|
| 6817 | 85 | 100 | 13 | 0.266 | 6026 | 130 | 200 | 33 | 3.160 |
| 6917 | 85 | 120 | 18 | 0.535 | 6226 | 130 | 230 | 40 | 5.820 |
| 16017 | 85 | 130 | 14 | 0.626 | 6326 | 130 | 280 | 58 | 15.100 |
| 6017 | 85 | 130 | 22 | 0.89 | 6828 | 140 | 175 | 18 | 1.000 |
| 6217 | 85 | 150 | 28 | 1.79 | 6928 | 140 | 190 | 24 | 1.980 |
| 6317 | 85 | 180 | 41 | 4.23 | 16028 | 140 | 210 | 22 | 2.860 |
| 6417 | 85 | 210 | 52 | 8.07 | 6028 | 140 | 210 | 33 | 3.550 |
| 6818 | 90 | 115 | 13 | 0.279 | 6228 | 140 | 250 | 42 | 7.450 |
| 6918 | 90 | 125 | 18 | 0.565 | 6328 | 140 | 300 | 62 | 19.400 |

Note: We can also design and produce special kinds of bearings according to the requirements of customers.

If you need more information, please contact us.