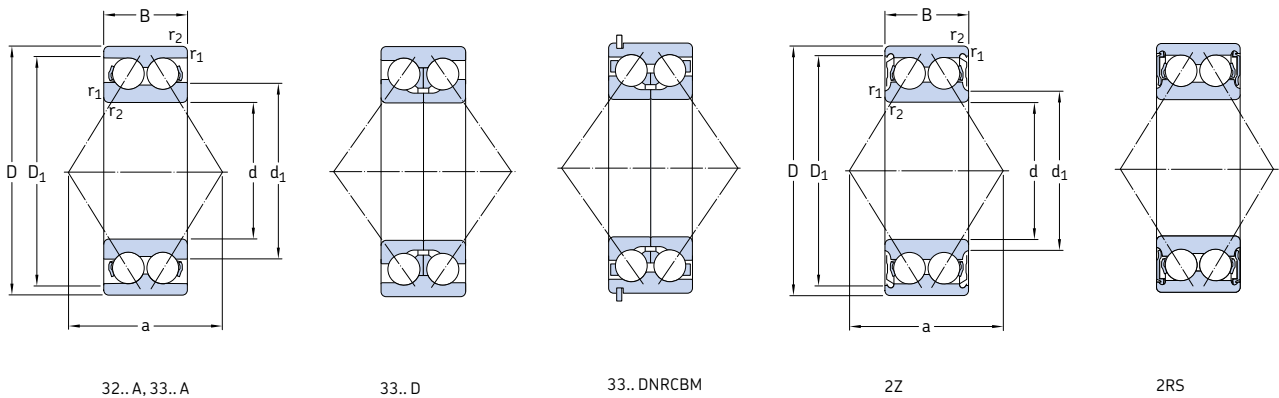


# Double Row Angular Contact Ball Bearings

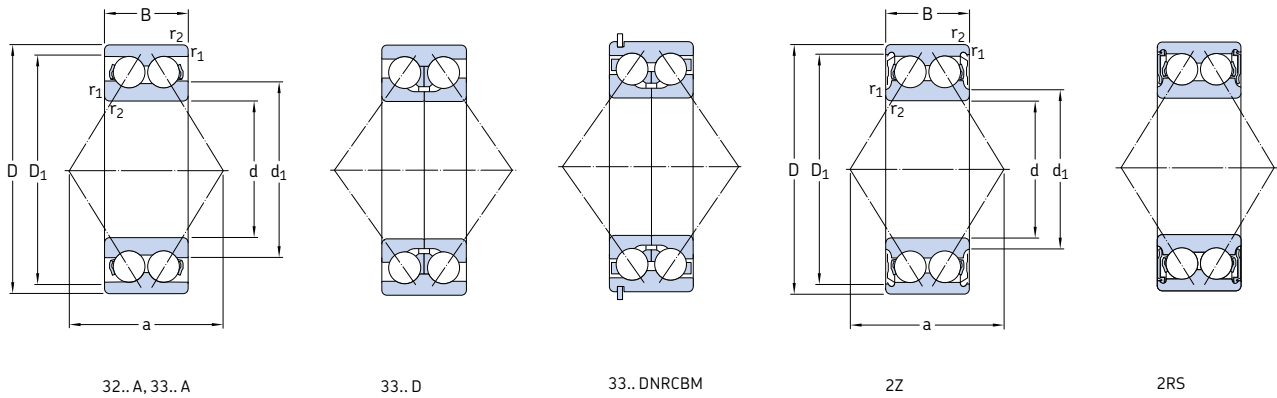
3000 , 3200 , 3300 , 3800 , 3900



| shaft | Bearing No<br>Open | Dimensions(mm) |    |      | Load ratings(KN) |        | Limited Speed(rpm) |       | Weight<br>≈kg |
|-------|--------------------|----------------|----|------|------------------|--------|--------------------|-------|---------------|
|       |                    | d              | D  | B    | Dynamic          | Static | Grease             | Oil   |               |
| 5     | 30/5               | 5              | 14 | 7    | 1.181            | 0.95   | 20000              | 25000 | 0.008         |
| 6     | 30/6               | 6              | 17 | 9    | 3.1              | 1.4    | 20000              | 25000 | 0.01          |
| 7     | 30/7               | 7              | 19 | 10   | 3.65             | 1.7    | 20000              | 25000 | 0.012         |
| 8     | 30/8               | 8              | 22 | 11   | 5.2              | 2.61   | 20000              | 25000 | 0.02          |
| 10    | 3000               | 10             | 26 | 12   | 5.5              | 3.2    | 18000              | 23000 | 0.022         |
|       | 3200               | 10             | 30 | 14.3 | 7.5              | 4.3    | 16000              | 21000 | 0.05          |
| 12    | 3001               | 12             | 28 | 12   | 6.1              | 3.7    | 17000              | 22000 | 0.025         |
|       | 3201               | 12             | 32 | 15.9 | 9                | 4.9    | 14000              | 19000 | 0.058         |
| 15    | 3002               | 15             | 32 | 13   | 8.5              | 5.4    | 14500              | 18000 | 0.036         |
|       | 3202               | 15             | 35 | 15.9 | 10               | 6      | 11000              | 16000 | 0.066         |
|       | 3302               | 15             | 42 | 19   | 14               | 8      | 10000              | 15000 | 0.13          |
| 17    | 3003               | 17             | 35 | 14   | 9                | 6      | 12500              | 16000 | 0.042         |
|       | 3203               | 17             | 40 | 17.5 | 12.7             | 7.8    | 9000               | 14000 | 0.096         |
|       | 3303               | 17             | 47 | 22.2 | 17.3             | 10.4   | 8000               | 12000 | 0.18          |
| 20    | 3804               | 20             | 32 | 10   | 4.9              | 3.9    | 13000              | 14300 | 0.02          |
|       | 3904               | 20             | 37 | 13   | 9.3              | 6.6    | 12000              | 13200 | 0.046         |
|       | 3004               | 20             | 42 | 16   | 14.2             | 9.6    | 11000              | 13000 | 0.08          |
|       | 3204               | 20             | 47 | 20.6 | 19               | 12.1   | 8000               | 12000 | 0.16          |
|       | 3304               | 20             | 52 | 22.2 | 19               | 12.3   | 8500               | 12000 | 0.22          |
| 25    | 3805               | 25             | 37 | 10   | 5.5              | 4.9    | 11500              | 12700 | 0.025         |
|       | 3905               | 25             | 42 | 13   | 9.6              | 7.5    | 11000              | 12300 | 0.062         |
|       | 3005               | 25             | 47 | 16   | 15.2             | 11     | 9500               | 12000 | 0.1           |
|       | 3205               | 25             | 52 | 20.6 | 20.6             | 13.9   | 7500               | 10000 | 0.19          |
|       | 3305               | 25             | 62 | 25.4 | 27.6             | 17.8   | 7500               | 10000 | 0.367         |

# Double Row Angular Contact Ball Bearings

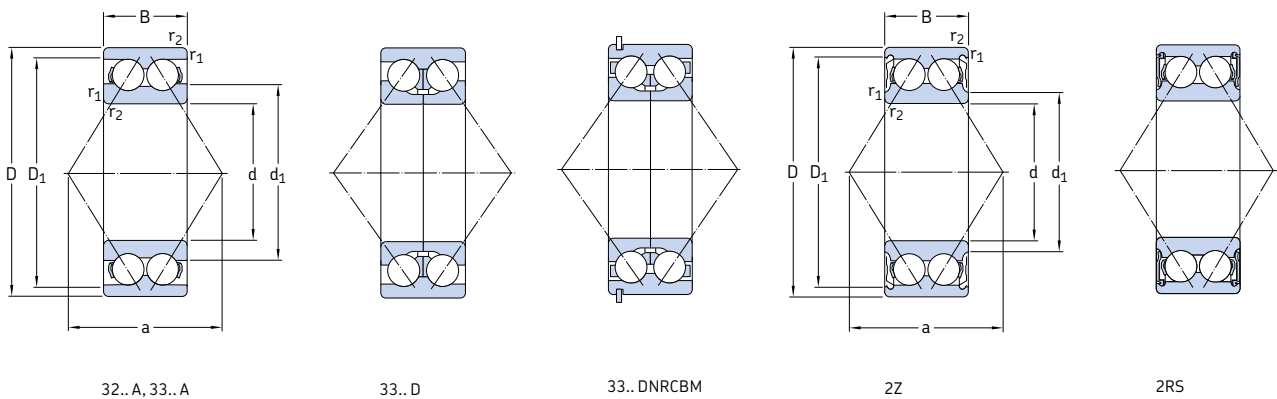
3000 , 3200 , 3300 , 3800 , 3900



| shaft | Bearing No<br>Open | Dimensions(mm) |     |      | Load ratings(KN) |        | Limited Speed(rpm) |       | Weight<br>≈kg |
|-------|--------------------|----------------|-----|------|------------------|--------|--------------------|-------|---------------|
|       |                    | d              | D   | B    | Dynamic          | Static | Grease             | Oil   |               |
| 30    | 3806               | 30             | 42  | 10   | 5.7              | 5.6    | 10000              | 11500 | 0.03          |
|       | 3906               | 30             | 47  | 13   | 9.9              | 8.3    | 9500               | 10500 | 0.095         |
|       | 3006               | 30             | 55  | 19   | 20.3             | 15.5   | 8000               | 10000 | 0.16          |
|       | 3206               | 30             | 62  | 23.8 | 25.7             | 18.5   | 6300               | 8500  | 0.31          |
|       | 3306               | 30             | 72  | 30.2 | 37.2             | 25.9   | 6000               | 8000  | 0.59          |
| 35    | 3807               | 35             | 47  | 10   | 6.1              | 6.2    | 8500               | 10000 | 0.035         |
|       | 3907               | 35             | 55  | 15   | 12.9             | 11.3   | 8000               | 9500  | 0.138         |
|       | 3007               | 35             | 62  | 20   | 24.2             | 20.4   | 6500               | 8500  | 0.24          |
|       | 3207               | 35             | 72  | 27   | 30.4             | 23.5   | 5600               | 7500  | 0.51          |
|       | 3307               | 35             | 80  | 34.9 | 46.1             | 35.3   | 5300               | 7000  | 0.82          |
|       | 3307DJ1            | 35             | 80  | 34.9 | 46.1             | 35.3   | 5300               | 7000  | 0.82          |
| 40    | 3808               | 40             | 52  | 10   | 6.4              | 6.9    | 7000               | 8500  | 0.04          |
|       | 3908               | 40             | 62  | 16   | 17.4             | 15.8   | 6500               | 8000  | 0.158         |
|       | 3008               | 40             | 68  | 21   | 24.5             | 20.8   | 6000               | 7800  | 0.279         |
|       | 3208               | 40             | 80  | 30.2 | 40.8             | 30.2   | 5300               | 7000  | 0.64          |
|       | 3308               | 40             | 90  | 36.5 | 54.9             | 40.1   | 4800               | 6300  | 1.06          |
|       | 3308DNRCBM         | 40             | 90  | 36.5 | 54.9             | 40.1   | 4800               | 6300  | 1.06          |
| 45    | 3809               | 45             | 58  | 10   | 6.7              | 7.7    | 6300               | 7000  | 0.055         |
|       | 3909               | 45             | 68  | 16   | 17.9             | 17.2   | 6000               | 6800  | 0.183         |
|       | 3009               | 45             | 75  | 23   | 39.3             | 36.4   | 5600               | 6200  | 0.364         |
|       | 3209               | 45             | 85  | 30.2 | 42.8             | 34.5   | 4800               | 6300  | 0.72          |
|       | 3309               | 45             | 100 | 39.7 | 72.1             | 52     | 4300               | 5600  | 1.24          |
|       | 3309DNRCBM         | 45             | 100 | 39.7 | 72.1             | 52     | 4300               | 5600  | 1.24          |
| 50    | 3810               | 50             | 65  | 12   | 7                | 8.4    | 6000               | 7500  | 0.075         |
|       | 3910               | 50             | 72  | 16   | 19.1             | 19.6   | 5800               | 7200  | 0.189         |

# Double Row Angular Contact Ball Bearings

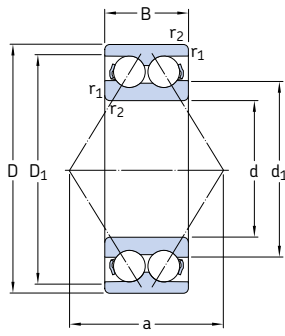
3000 , 3200 , 3300 , 3800 , 3900



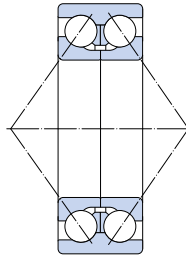
| shaft | Bearing No<br>Open | Dimensions(mm) |     |      | Load ratings(KN) |        | Limited Speed(rpm) |      | Weight<br>≈kg |
|-------|--------------------|----------------|-----|------|------------------|--------|--------------------|------|---------------|
|       |                    | d              | D   | B    | Dynamic          | Static | Grease             | Oil  |               |
| 50    | 3010               | 50             | 80  | 23   | 42.3             | 41.9   | 5300               | 6600 | 0.395         |
|       | 3210               | 50             | 90  | 30.2 | 43.2             | 35.3   | 4500               | 6000 | 0.78          |
|       | 3310               | 50             | 110 | 44.4 | 84.9             | 62.6   | 4000               | 5300 | 1.96          |
|       | 3310DNRCBM         | 50             | 110 | 44.4 | 84.9             | 62.6   | 4000               | 5300 | 1.96          |
|       | 3310DMA            | 50             | 110 | 44.4 | 84.9             | 62.6   | 4000               | 5300 | 1.96          |
| 55    | 3811               | 55             | 72  | 13   | 12.8             | 14.4   | 5500               | 6500 | 0.01          |
|       | 3911               | 55             | 80  | 19   | 20               | 21.7   | 5300               | 6200 | 0.282         |
|       | 3011               | 55             | 90  | 26   | 43.7             | 44.7   | 4800               | 5800 | 0.581         |
|       | 3211               | 55             | 100 | 33.3 | 53.9             | 47.2   | 4000               | 5300 | 1.03          |
|       | 3311               | 55             | 120 | 49.2 | 106.3            | 82     | 3600               | 4800 | 2.4           |
|       | 3311DNRCBM         | 55             | 120 | 49.2 | 106.3            | 82     | 3600               | 4800 | 2.4           |
|       | 3311DMA            | 55             | 120 | 49.2 | 106.3            | 82     | 3600               | 4800 | 2.4           |
| 60    | 3812               | 60             | 78  | 14   | 13.6             | 16.2   | 5000               | 5500 | 0.14          |
|       | 3912               | 60             | 85  | 19   | 21               | 23.8   | 4800               | 5300 | 0.303         |
|       | 3012               | 60             | 95  | 26   | 47.2             | 53.4   | 4400               | 5000 | 0.621         |
|       | 3212               | 60             | 110 | 36.5 | 61.3             | 52.6   | 3800               | 5000 | 1.4           |
|       | 3312               | 60             | 130 | 54   | 121.4            | 95.1   | 3400               | 4500 | 3.24          |
| 65    | 3813               | 65             | 85  | 15   | 15.1             | 18.3   | 4700               | 5200 | 0.182         |
|       | 3913               | 65             | 90  | 19   | 21.4             | 24.8   | 4500               | 5000 | 0.324         |
|       | 3013               | 65             | 100 | 26   | 49.5             | 59.2   | 4000               | 4800 | 0.661         |
|       | 3213               | 65             | 120 | 38.1 | 73.4             | 66.6   | 3400               | 4500 | 1.84          |
|       | 3313               | 65             | 140 | 58.7 | 137.5            | 109.6  | 2800               | 3700 | 2.9           |
|       | 3311DNRCBM         | 65             | 140 | 58.7 | 137.5            | 109.6  | 2800               | 3700 | 2.9           |
| 70    | 3814               | 70             | 90  | 15   | 18               | 21.9   | 4400               | 4800 | 0.19          |
|       | 3914               | 70             | 100 | 23   | 25.8             | 30     | 4000               | 4600 | 0.516         |
|       | 3014               | 70             | 110 | 30   | 54.2             | 58.9   | 3600               | 4400 | 0.95          |
|       | 3214               | 70             | 125 | 39.7 | 80.5             | 73.8   | 3200               | 4300 | 1.98          |
|       | 3314               | 70             | 150 | 63.5 | 154.5            | 125.1  | 2800               | 3800 | 4.7           |

# Double Row Angular Contact Ball Bearings

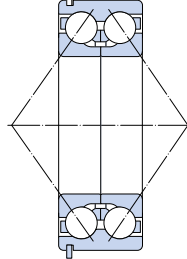
3000 , 3200 , 3300 , 3800 , 3900



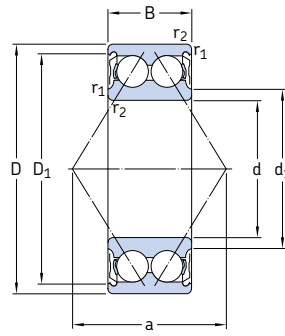
32.. A, 33.. A



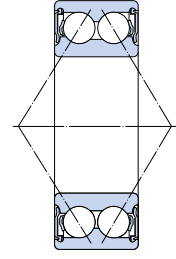
33.. D



33.. DNRCBM



2Z



2RS

| shaft | Bearing No<br>Open | Dimensions(mm) |     |      | Load ratings(KN) |        | Limited Speed(rpm) |      | Weight<br>≈kg |
|-------|--------------------|----------------|-----|------|------------------|--------|--------------------|------|---------------|
|       |                    | d              | D   | B    | Dynamic          | Static | Grease             | Oil  |               |
| 75    | 3815               | 75             | 95  | 15   | 16               | 20.3   | 4200               | 4700 | 0.224         |
|       | 3915               | 75             | 105 | 23   | 26               | 31.3   | 3800               | 4300 | 0.546         |
|       | 3015               | 75             | 115 | 30   | 57.7             | 66.5   | 3400               | 4000 | 1.003         |
|       | 3215               | 75             | 130 | 41.3 | 87.9             | 81.4   | 3000               | 3600 | 2.01          |
|       | 3315               | 75             | 160 | 68.3 | 171.4            | 134.8  | 2600               | 3200 | 6.3           |
| 80    | 3816               | 80             | 100 | 15   | 16.5             | 21.7   | 4000               | 4400 | 0.23          |
|       | 3916               | 80             | 110 | 23   | 26.7             | 32.5   | 3500               | 4000 | 0.576         |
|       | 3016               | 80             | 125 | 34   | 63.5             | 67.8   | 3100               | 3800 | 1.38          |
|       | 3216               | 80             | 140 | 44.4 | 103.7            | 97.5   | 2800               | 3600 | 2.48          |
|       | 3316               | 80             | 170 | 68.3 | 190.1            | 151.7  | 2400               | 3400 | 7.21          |
| 85    | 3817               | 85             | 110 | 19   | 22               | 28.7   | 3600               | 4000 | 0.407         |
|       | 3917               | 85             | 120 | 26   | 31.5             | 38.5   | 3300               | 3700 | 0.821         |
|       | 3017               | 85             | 130 | 34   | 68.3             | 77.5   | 2900               | 3600 | 1.447         |
|       | 3217               | 85             | 150 | 49.2 | 111.8            | 106.4  | 2400               | 3500 | 3.2           |
|       | 3317               | 85             | 180 | 73   | 189.4            | 234.5  | 2200               | 3200 | 8.3           |
| 90    | 3818               | 90             | 115 | 19   | 23.3             | 30.8   | 3300               | 3600 | 0.45          |
|       | 3918               | 90             | 125 | 26   | 32.1             | 40.1   | 3100               | 3400 | 0.861         |
|       | 3018               | 90             | 140 | 37   | 69.8             | 77.3   | 2700               | 3300 | 1.872         |
|       | 3218               | 90             | 160 | 52.4 | 111.8            | 106.4  | 2400               | 3200 | 4.5           |
|       | 3318               | 90             | 190 | 73   | 230.6            | 193.3  | 2000               | 3000 | 9.23          |
| 95    | 3819               | 95             | 120 | 19   | 23.6             | 31.8   | 3200               | 3500 | 0.501         |
|       | 3919               | 95             | 130 | 26   | 32.6             | 41.7   | 3000               | 3300 | 0.901         |
|       | 3019               | 95             | 145 | 37   | 72.4             | 82.9   | 2600               | 3100 | 1.954         |
|       | 3219               | 95             | 170 | 55.6 | 145              | 198.7  | 2200               | 3000 | 5.01          |
| 100   | 3820               | 100            | 125 | 19   | 23.7             | 32.8   | 3100               | 3400 | 0.56          |
|       | 3920               | 100            | 140 | 30   | 37.9             | 48.5   | 2800               | 3200 | 1.27          |
|       | 3020               | 100            | 150 | 37   | 74.7             | 88.2   | 2500               | 2800 | 2.04          |
|       | 3220               | 100            | 180 | 60.3 | 185              | 172    | 2000               | 2500 | 5.82          |