



# SPHERICAL ROLLER BEARINGS

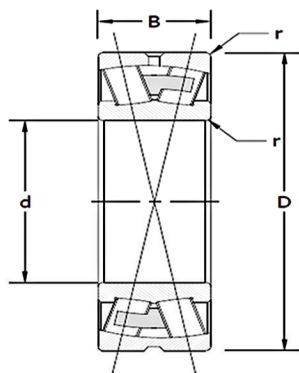


Spherical Roller bearings utilize 2 rows of rollers operating in a common sphered outer ring raceway. This design provides a self-aligning solution that is the combination of a radial & thrust bearing that operates even if the shaft and housing are, or become, misaligned under load.

This high capacity bearing performs consistently in adverse conditions such as shock loads, shaft deflections, marginal lubrication, extreme speeds, contamination, and critical application stresses.

BL Spherical Roller Bearings are constructed with a bronze, one piece CAM cage. As compared to the older style MB cage, this design allows for a longer roller and higher overall load carrying capacity, providing better performance & greater life.

*Certain special applications with higher degrees of axial load may perform better with the MB cage. MB and CC style (Steel) cages are available upon request & lead time. Minimums may apply.*



BL Spherical Roller Bearings are produced with a cylindrical bore, as well as a tapered bore in most sizes. Tapered bore bearings will carry the "K" suffix (CAKM), and can be mounted on a smooth or stepped shaft using an adapter or a withdrawal sleeve. This arrangement facilitates easy mounting & dismounting.

To facilitate efficient lubrication, the bearings are equipped with an annular groove and lubrication holes in the outer ring. This is represented by the W33 suffix.

Due to superior design capabilities, Spherical Roller Bearings are used in a wide variety of applications including:

- wind power
- mining
- pulp & paper
- power generation
- shipping & cargo operations
- oil field
- aggregate
- gear drives
- rolling mills

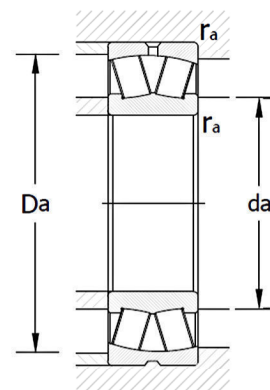
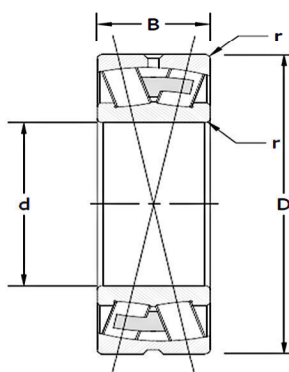




# SPHERICAL ROLLER BEARINGS

## Features:

- 1 Piece CAM Bronze Cage
- W33 Oil Hole & Groove in OD
- Available with a tapered bore for adapter style mounting - Suffix "K"



## 21300 - NARROW SERIES

| Bearing No.     | Boundary dimensions<br>(mm) |     |    | rsm<br>(in) | Load<br>Ratings(Lbs) |                 | Limiting<br>speeds(r/min) |      | Mounting  |           |           | Weight<br>(lbs) |
|-----------------|-----------------------------|-----|----|-------------|----------------------|-----------------|---------------------------|------|-----------|-----------|-----------|-----------------|
|                 | d                           | D   | B  |             | Dynamic<br>(Cr)      | Static<br>(Cor) | Grease                    | Oil  | da<br>min | Da<br>max | ra<br>max |                 |
| 21304 CAM/C3W33 | 20                          | 52  | 15 | 0.04        | 7126                 | 7216            | 6000                      | 7500 | 27        | 45        | 1.0       | 0.385           |
| 21305 CAM/C3W33 | 25                          | 62  | 17 | 0.04        | 9599                 | 10229           | 5300                      | 6700 | 32        | 55        | 1.0       | 0.609           |
| 21306 CAM/C3W33 | 30                          | 72  | 19 | 0.04        | 12926                | 14365           | 4500                      | 6000 | 37        | 65        | 1.0       | 0.906           |
| 21307 CAM/C3W33 | 35                          | 80  | 21 | 0.06        | 14702                | 16951           | 4000                      | 5300 | 44        | 71        | 1.5       | 1.192           |
| 21308 CAM/C3W33 | 40                          | 90  | 23 | 0.06        | 19963                | 22256           | 3600                      | 4500 | 49        | 81        | 1.5       | 1.650           |
| 21309 CAM/C3W33 | 45                          | 100 | 25 | 0.06        | 23762                | 26618           | 3200                      | 4000 | 54        | 91        | 1.5       | 2.244           |
| 21310 CAM/C3W33 | 50                          | 110 | 27 | 0.08        | 27786                | 32418           | 2800                      | 3800 | 60        | 100       | 2.0       | 2.860           |
| 21311 CAM/C3W33 | 55                          | 120 | 29 | 0.08        | 32889                | 39364           | 2600                      | 3400 | 65        | 110       | 2.0       | 3.630           |
| 21312 CAM/C3W33 | 60                          | 130 | 31 | 0.08        | 37520                | 45164           | 2400                      | 3200 | 72        | 118       | 2.1       | 4.576           |
| 21313 CAM/C3W33 | 65                          | 140 | 33 | 0.08        | 42151                | 52785           | 2200                      | 3000 | 77        | 128       | 2.1       | 5.654           |
| 21314 CAM/C3W33 | 70                          | 150 | 35 | 0.08        | 49098                | 62048           | 2000                      | 2800 | 82        | 138       | 2.1       | 6.842           |
| 21315 CAM/C3W33 | 75                          | 160 | 37 | 0.08        | 55100                | 69938           | 1900                      | 2600 | 87        | 148       | 2.1       | 8.272           |
| 21316 CAM/C3W33 | 80                          | 170 | 39 | 0.08        | 60204                | 80617           | 1800                      | 2400 | 92        | 158       | 2.1       | 9.834           |
| 21317 CAM/C3W33 | 85                          | 180 | 41 | 0.12        | 68994                | 89160           | 1700                      | 2200 | 99        | 166       | 2.5       | 11.506          |
| 21318 CAM/C3W33 | 90                          | 190 | 43 | 0.12        | 74097                | 97253           | 1600                      | 2200 | 104       | 176       | 2.5       | 13.574          |
| 21319 CAM/C3W33 | 95                          | 200 | 45 | 0.12        | 82213                | 112315          | 1700                      | 2200 | 109       | 186       | 2.5       | 15.730          |
| 21320 CAM/C3W33 | 100                         | 215 | 47 | 0.12        | 89159                | 122724          | 1600                      | 2000 | 114       | 201       | 2.5       | 19.382          |
| 21321 CAM/C3W33 | 105                         | 225 | 49 | 0.08        | 94420                | 129266          | 1500                      | 1900 | 119       | 211       | 2.5       | 22.000          |
| 21322 CAM/C3W33 | 110                         | 240 | 50 | 0.12        | 103412               | 142754          | 1400                      | 1800 | 124       | 226       | 2.5       | 25.960          |

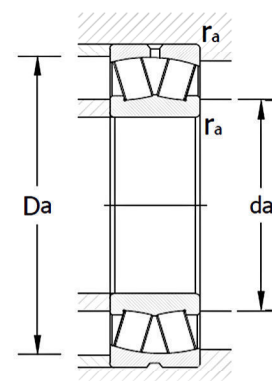
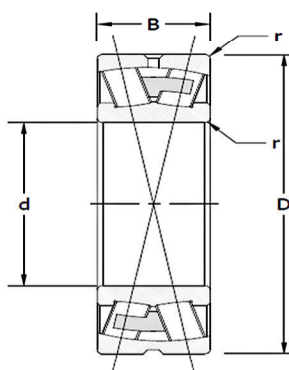




# SPHERICAL ROLLER BEARINGS

## Features:

- 1 Piece CAM Bronze Cage
- W33 Oil Hole & Groove in OD
- Available with a tapered bore for adapter style mounting - Suffix "K"



## 22200 - LIGHT SERIES

| Bearing No.     | Boundary dimensions<br>(mm) |     |    | r <sub>min</sub><br>(in) | Load<br>Ratings(Lbs) |                 | Limiting<br>speeds(r/min) |       | Mounting  |           |           | Weight<br>(lbs) |
|-----------------|-----------------------------|-----|----|--------------------------|----------------------|-----------------|---------------------------|-------|-----------|-----------|-----------|-----------------|
|                 | d                           | D   | B  |                          | Dynamic<br>(Cr)      | Static<br>(Cor) | Grease                    | Oil   | da<br>min | Da<br>max | ra<br>max |                 |
| 22205 CAM/C3W33 | 25                          | 52  | 18 | 0.04                     | 8992                 | 9442            | 8000                      | 10000 | 30        | 46        | 1.0       | 0.389           |
| 22206 CAM/C3W33 | 30                          | 62  | 20 | 0.04                     | 12004                | 13151           | 6300                      | 8000  | 36        | 56        | 1.0       | 0.660           |
| 22207 CAM/C3W33 | 35                          | 72  | 23 | 0.04                     | 15399                | 17715           | 5300                      | 6700  | 42        | 65        | 1.0       | 0.990           |
| 22208 CAM/C3W33 | 40                          | 80  | 23 | 0.04                     | 18187                | 21020           | 5000                      | 6000  | 47        | 73        | 1.0       | 1.188           |
| 22209 CAM/C3W33 | 45                          | 85  | 23 | 0.04                     | 18996                | 22571           | 4500                      | 5600  | 52        | 78        | 1.0       | 1.276           |
| 22210 CAM/C3W33 | 50                          | 90  | 23 | 0.04                     | 19558                | 24302           | 4000                      | 5000  | 57        | 83        | 1.0       | 1.364           |
| 22211 CAM/C3W33 | 55                          | 100 | 25 | 0.06                     | 23627                | 28956           | 3600                      | 4500  | 64        | 91        | 1.5       | 1.848           |
| 22212 CAM/C3W33 | 60                          | 110 | 28 | 0.06                     | 28258                | 35902           | 3200                      | 4000  | 69        | 101       | 1.5       | 2.640           |
| 22213 CAM/C3W33 | 65                          | 120 | 31 | 0.06                     | 34733                | 45142           | 2800                      | 3600  | 74        | 111       | 1.5       | 3.520           |
| 22214 CAM/C3W33 | 70                          | 125 | 31 | 0.06                     | 36576                | 47480           | 2600                      | 3400  | 79        | 116       | 1.5       | 3.740           |
| 22215 CAM/C3W33 | 75                          | 130 | 31 | 0.06                     | 37520                | 49795           | 2400                      | 3200  | 84        | 121       | 1.5       | 3.960           |
| 22216 CAM/C3W33 | 80                          | 140 | 33 | 0.08                     | 40533                | 55101           | 2200                      | 3000  | 90        | 130       | 2.0       | 4.840           |
| 22217 CAM/C3W33 | 85                          | 150 | 36 | 0.08                     | 48626                | 64363           | 2000                      | 2800  | 95        | 140       | 2.0       | 5.940           |
| 22218 CAM/C3W33 | 90                          | 160 | 40 | 0.08                     | 55573                | 74569           | 1900                      | 2600  | 100       | 150       | 2.0       | 7.216           |
| 22219 CAM/C3W33 | 95                          | 170 | 43 | 0.08                     | 64363                | 87991           | 1900                      | 2600  | 107       | 158       | 2.1       | 9.020           |
| 22220 CAM/C3W33 | 100                         | 180 | 46 | 0.08                     | 71781                | 98422           | 1800                      | 2400  | 112       | 168       | 2.1       | 11.000          |
| 22222 CAM/C3W33 | 110                         | 200 | 53 | 0.08                     | 93745                | 133088          | 1700                      | 2200  | 122       | 188       | 2.1       | 15.840          |
| 22224 CAM/C3W33 | 120                         | 215 | 58 | 0.08                     | 108808               | 156917          | 1600                      | 2000  | 132       | 203       | 2.1       | 19.800          |
| 22226 CAM/C3W33 | 130                         | 230 | 64 | 0.12                     | 127467               | 187492          | 1400                      | 1800  | 144       | 216       | 2.5       | 24.640          |
| 22228 CAM/C3W33 | 140                         | 250 | 68 | 0.12                     | 145452               | 215368          | 1300                      | 1700  | 154       | 236       | 2.5       | 31.900          |
| 22230 CAM/C3W33 | 150                         | 270 | 73 | 0.12                     | 170855               | 254035          | 1200                      | 1600  | 164       | 256       | 2.5       | 40.920          |
| 22232 CAM/C3W33 | 160                         | 290 | 80 | 0.12                     | 191088               | 287757          | 1000                      | 1400  | 174       | 276       | 2.5       | 50.820          |
| 22234 CAM/C3W33 | 170                         | 310 | 86 | 0.16                     | 219189               | 337215          | 950                       | 1200  | 188       | 292       | 3.0       | 63.800          |
| 22236 CAM/C3W33 | 180                         | 320 | 86 | 0.16                     | 227058               | 357448          | 900                       | 1100  | 198       | 302       | 3.0       | 66.000          |

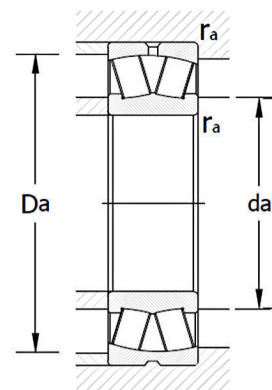
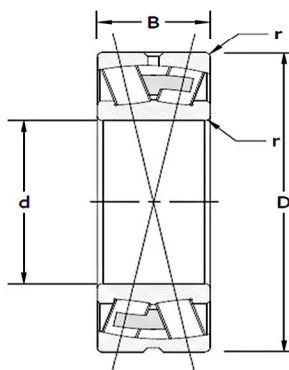




# SPHERICAL ROLLER BEARINGS

## Features:

- 1 Piece CAM Bronze Cage
- W33 Oil Hole & Groove in OD
- Available with a tapered bore for adapter style mounting - Suffix "K"



## 22300 - MEDIUM SERIES

| Bearing No.     | Boundary dimensions<br>(mm) |     |     | rsm<br>(in) | Load<br>Ratings(Lbs) |                 | Limiting<br>speeds(r/min) |        | Mounting |     |     | Weight<br>(lbs) |
|-----------------|-----------------------------|-----|-----|-------------|----------------------|-----------------|---------------------------|--------|----------|-----|-----|-----------------|
|                 | Straight Bore               | d'  | D   |             | B                    | Dynamic<br>(Cr) | Static<br>(Cor)           | Grease | Oil      | da  | Da  |                 |
| min             |                             |     |     |             |                      |                 |                           |        |          | max | max |                 |
| 22308 CAM/C3W33 | 40                          | 90  | 33  | 0.06        | 27786                | 31946           | 4300                      | 5300   | 49       | 81  | 1.5 | 2.200           |
| 22309 CAM/C3W33 | 45                          | 100 | 36  | 0.06        | 32889                | 39364           | 3800                      | 4800   | 54       | 91  | 1.5 | 3.036           |
| 22310 CAM/C3W33 | 50                          | 110 | 40  | 0.08        | 40533                | 48626           | 3400                      | 4300   | 60       | 100 | 2.0 | 4.070           |
| 22311 CAM/C3W33 | 55                          | 120 | 43  | 0.08        | 48154                | 57889           | 3000                      | 3800   | 65       | 110 | 2.0 | 5.170           |
| 22312 CAM/C3W33 | 60                          | 130 | 46  | 0.08        | 55100                | 66004           | 2800                      | 3600   | 72       | 118 | 2.1 | 6.490           |
| 22313 CAM/C3W33 | 65                          | 140 | 48  | 0.08        | 60204                | 72928           | 2400                      | 3200   | 77       | 128 | 2.1 | 7.810           |
| 22314 CAM/C3W33 | 70                          | 150 | 51  | 0.08        | 67622                | 83832           | 2200                      | 3000   | 82       | 138 | 2.1 | 9.680           |
| 22315 CAM/C3W33 | 75                          | 160 | 55  | 0.08        | 79200                | 101412          | 2000                      | 2800   | 87       | 148 | 2.1 | 11.550          |
| 22316 CAM/C3W33 | 80                          | 170 | 58  | 0.08        | 89159                | 115305          | 1900                      | 2600   | 92       | 158 | 2.1 | 14.058          |
| 22317 CAM/C3W33 | 85                          | 180 | 60  | 0.12        | 97252                | 125039          | 1800                      | 2400   | 99       | 166 | 2.5 | 15.950          |
| 22318 CAM/C3W33 | 90                          | 190 | 64  | 0.12        | 109999               | 144036          | 1800                      | 2400   | 104      | 176 | 2.5 | 18.920          |
| 22319 CAM/C3W33 | 95                          | 200 | 67  | 0.12        | 120408               | 159300          | 1700                      | 2200   | 109      | 186 | 2.5 | 22.220          |
| 22320 CAM/C3W33 | 100                         | 215 | 73  | 0.12        | 140776               | 188728          | 1400                      | 1800   | 114      | 201 | 2.5 | 29.480          |
| 22322 CAM/C3W33 | 110                         | 240 | 80  | 0.12        | 160963               | 216492          | 1500                      | 1900   | 124      | 226 | 2.5 | 39.600          |
| 22324 CAM/C3W33 | 120                         | 260 | 86  | 0.12        | 190414               | 259431          | 1300                      | 1700   | 134      | 246 | 2.5 | 48.400          |
| 22326 CAM/C3W33 | 130                         | 280 | 93  | 0.16        | 218065               | 301245          | 1200                      | 1600   | 148      | 262 | 3.0 | 62.700          |
| 22328 CAM/C3W33 | 140                         | 300 | 102 | 0.16        | 256283               | 364192          | 1100                      | 1500   | 158      | 282 | 3.0 | 75.900          |
| 22330 CAM/C3W33 | 150                         | 320 | 108 | 0.16        | 285508               | 415899          | 1100                      | 1400   | 168      | 302 | 3.0 | 93.500          |

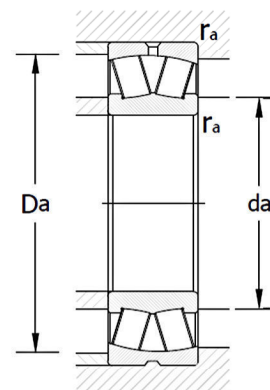
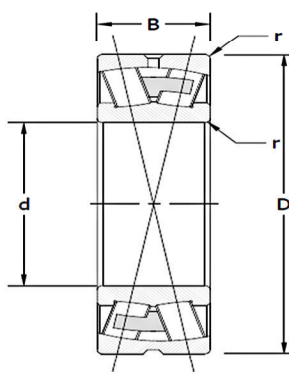




# SPHERICAL ROLLER BEARINGS

## Features:

- 1 Piece CAM Bronze Cage
- W33 Oil Hole & Groove in OD
- Available with a tapered bore for adapter style mounting - Suffix "K"



## 23000/23100 - LIGHT SERIES

| Bearing No.     | Boundary dimensions<br>(mm) |          |          | r <sub>smin</sub><br>(in) | Load<br>Ratings(Lbs) |                 | Limiting<br>speeds(r/min) |      | Mounting         |                  |                  | Weight<br>(lbs) |
|-----------------|-----------------------------|----------|----------|---------------------------|----------------------|-----------------|---------------------------|------|------------------|------------------|------------------|-----------------|
|                 | <i>d'</i>                   | <i>D</i> | <i>B</i> |                           | Dynamic<br>(Cr)      | Static<br>(Cor) | Grease                    | Oil  | <i>da</i><br>min | <i>Da</i><br>max | <i>ra</i><br>max |                 |
| 23022 CAM/C3W33 | 110                         | 170      | 45       | 0.08                      | 62497                | 103637          | 1500                      | 1900 | 120              | 160              | 2.0              | 8.580           |
| 23024 CAM/C3W33 | 120                         | 180      | 46       | 0.08                      | 68342                | 114653          | 1400                      | 1800 | 130              | 170              | 2.0              | 9.460           |
| 23026 CAM/C3W33 | 130                         | 200      | 52       | 0.08                      | 86102                | 144778          | 1200                      | 1600 | 140              | 190              | 2.0              | 13.640          |
| 23028 CAM/C3W33 | 140                         | 210      | 53       | 0.08                      | 93071                | 161638          | 1100                      | 1500 | 150              | 200              | 2.0              | 14.740          |
| 23030 CAM/C3W33 | 150                         | 225      | 56       | 0.08                      | 101389               | 177600          | 1100                      | 1400 | 162              | 213              | 2.1              | 17.908          |
| 23032 CAM/C3W33 | 160                         | 240      | 60       | 0.08                      | 115777               | 202329          | 1000                      | 1300 | 172              | 228              | 2.1              | 22.000          |
| 23034 CAM/C3W33 | 170                         | 260      | 67       | 0.08                      | 140731               | 249989          | 900                       | 1200 | 182              | 248              | 2.1              | 28.600          |
| 23036 CAM/C3W33 | 180                         | 280      | 74       | 0.08                      | 164111               | 290005          | 800                       | 1000 | 192              | 268              | 2.1              | 38.720          |
| 23038 CAM/C3W33 | 190                         | 290      | 75       | 0.08                      | 172429               | 312486          | 800                       | 1000 | 202              | 278              | 2.1              | 44.000          |
| 23040 CAM/C3W33 | 200                         | 310      | 82       | 0.08                      | 200080               | 370937          | 900                       | 1100 | 212              | 298              | 2.1              | 52.800          |
| 23120 CAM/C3W33 | 100                         | 165      | 52       | 0.08                      | 74097                | 116946          | 1600                      | 2000 | 110              | 155              | 2.0              | 11.000          |
| 23122 CAM/C3W33 | 110                         | 180      | 56       | 0.08                      | 86776                | 137809          | 1300                      | 1700 | 120              | 170              | 2.0              | 13.750          |
| 23124 CAM/C3W33 | 120                         | 200      | 62       | 0.08                      | 104087               | 165460          | 1300                      | 1700 | 130              | 190              | 2.0              | 16.786          |
| 23126 CAM/C3W33 | 130                         | 210      | 64       | 0.08                      | 110606               | 182546          | 1300                      | 1700 | 140              | 200              | 2.0              | 18.678          |
| 23128 CAM/C3W33 | 140                         | 225      | 68       | 0.08                      | 126118               | 214244          | 1100                      | 1500 | 152              | 213              | 2.1              | 23.980          |
| 23130 CAM/C3W33 | 150                         | 250      | 80       | 0.08                      | 167933               | 284834          | 1000                      | 1300 | 162              | 238              | 2.1              | 35.420          |
| 23132 CAM/C3W33 | 160                         | 270      | 86       | 0.08                      | 195584               | 328223          | 900                       | 1200 | 172              | 258              | 2.1              | 43.340          |
| 23134 CAM/C3W33 | 170                         | 280      | 88       | 0.08                      | 204801               | 351828          | 850                       | 1100 | 182              | 268              | 2.1              | 46.420          |
| 23136 CAM/C3W33 | 180                         | 300      | 96       | 0.12                      | 238298               | 415899          | 800                       | 1000 | 194              | 286              | 2.5              | 59.620          |
| 23138 CAM/C3W33 | 190                         | 320      | 104      | 0.12                      | 269772               | 476597          | 750                       | 1000 | 204              | 306              | 2.5              | 77.660          |

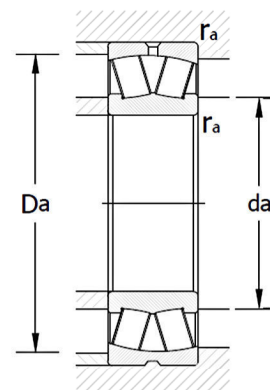
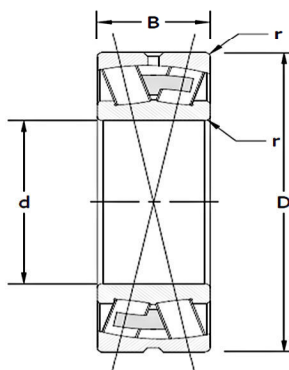




# SPHERICAL ROLLER BEARINGS

## Features:

- 1 Piece CAM Bronze Cage
- W33 Oil Hole & Groove in OD
- Available with a tapered bore for adapter style mounting - Suffix "K"



## 23200 - HEAVY SERIES

| Bearing No.     | Boundary dimensions<br>(mm) |     |      | r <sub>min</sub><br>(in) | Load<br>Ratings(Lbs) |                 | Limiting<br>speeds(r/min) |      | Mounting  |           |           | Weight<br>(lbs) |
|-----------------|-----------------------------|-----|------|--------------------------|----------------------|-----------------|---------------------------|------|-----------|-----------|-----------|-----------------|
|                 | d                           | D   | B    |                          | Dynamic<br>(Cr)      | Static<br>(Cor) | Grease                    | Oil  | da<br>min | Da<br>max | ra<br>max |                 |
| 23218 CAM/C3W33 | 90                          | 160 | 52.4 | 0.08                     | 75243                | 110607          | 1700                      | 2200 | 100       | 150       | 2.0       | 10.120          |
| 23220 CAM/C3W33 | 100                         | 180 | 60.3 | 0.08                     | 96106                | 143092          | 1600                      | 2000 | 112       | 168       | 2.1       | 14.740          |
| 23222 CAM/C3W33 | 110                         | 200 | 69.8 | 0.08                     | 119149               | 181871          | 1400                      | 1800 | 122       | 188       | 2.1       | 21.340          |
| 23224 CAM/C3W33 | 120                         | 215 | 76   | 0.08                     | 139382               | 217616          | 1300                      | 1700 | 132       | 203       | 2.1       | 26.400          |
| 23226 CAM/C3W33 | 130                         | 230 | 80   | 0.12                     | 159165               | 245493          | 1200                      | 1600 | 144       | 216       | 2.5       | 30.800          |
| 23228 CAM/C3W33 | 140                         | 250 | 88   | 0.12                     | 185693               | 296749          | 1000                      | 1400 | 154       | 236       | 2.5       | 40.700          |
| 23230 CAM/C3W33 | 150                         | 270 | 96   | 0.12                     | 216492               | 350704          | 950                       | 1300 | 164       | 256       | 2.5       | 52.800          |
| 23232 CAM/C3W33 | 160                         | 290 | 104  | 0.12                     | 249988               | 406906          | 900                       | 1200 | 174       | 276       | 2.5       | 66.000          |
| 23234 CAM/C3W33 | 170                         | 310 | 110  | 0.16                     | 269772               | 456364          | 800                       | 1100 | 188       | 292       | 3.0       | 78.540          |
| 23236 CAM/C3W33 | 180                         | 320 | 112  | 0.16                     | 287756               | 487838          | 1000                      | 1200 | 198       | 302       | 3.0       | 83.380          |
| 23238 CAM/C3W33 | 190                         | 340 | 120  | 0.16                     | 325974               | 559777          | 700                       | 1000 | 208       | 322       | 3.0       | 101.420         |

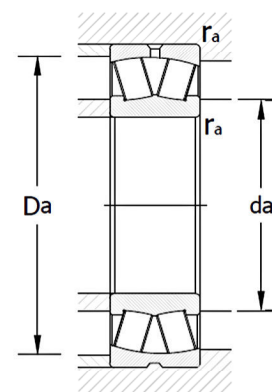
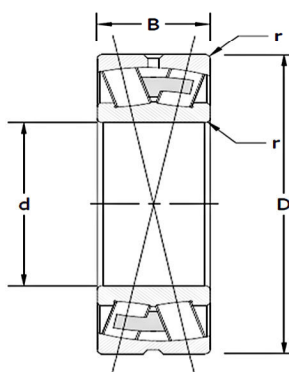




# SPHERICAL ROLLER BEARINGS

## Features:

- 1 Piece CAM Bronze Cage
- W33 Oil Hole & Groove in OD
- Available with a tapered bore for adapter style mounting - Suffix "K"



## 24000/24100 - WIDE SERIES

| Bearing No.     | Boundary dimensions<br>(mm) |          |          | r <sub>min</sub><br>(in) | Load<br>Ratings(Lbs) |                 | Limiting<br>speeds(r/min) |      | Mounting         |                  |                  | Weight<br>(lbs) |
|-----------------|-----------------------------|----------|----------|--------------------------|----------------------|-----------------|---------------------------|------|------------------|------------------|------------------|-----------------|
|                 | <i>a</i>                    | <i>D</i> | <i>B</i> |                          | Dynamic<br>(Cr)      | Static<br>(Cor) | Grease                    | Oil  | <i>da</i><br>min | <i>Da</i><br>max | <i>ra</i><br>max |                 |
| 24024 CAM/C3W33 | 120                         | 180      | 60       | 0.08                     | 85427                | 151747          | 1500                      | 2000 | 130              | 170              | 2.0              | 11.110          |
| 24026 CAM/C3W33 | 130                         | 200      | 69       | 0.08                     | 106110               | 191538          | 1400                      | 1800 | 140              | 190              | 2.0              | 16.610          |
| 24028 CAM/C3W33 | 140                         | 210      | 69       | 0.08                     | 109707               | 201205          | 1200                      | 1600 | 150              | 200              | 2.0              | 17.622          |
| 24030 CAM/C3W33 | 150                         | 225      | 75       | 0.08                     | 128141               | 240547          | 1100                      | 1400 | 162              | 213              | 2.1              | 23.320          |
| 24032 CAM/C3W33 | 160                         | 240      | 80       | 0.08                     | 146576               | 276516          | 1000                      | 1300 | 172              | 228              | 2.1              | 26.840          |
| 24034 CAM/C3W33 | 170                         | 260      | 90       | 0.08                     | 178049               | 341711          | 900                       | 1200 | 182              | 248              | 2.1              | 36.740          |
| 24036 CAM/C3W33 | 180                         | 280      | 100      | 0.08                     | 208623               | 409154          | 800                       | 1000 | 192              | 268              | 2.1              | 48.620          |
| 24038 CAM/C3W33 | 190                         | 290      | 100      | 0.08                     | 219189               | 429387          | 800                       | 1100 | 202              | 278              | 2.1              | 50.600          |
| 24040 CAM/C3W33 | 200                         | 310      | 109      | 0.08                     | 251787               | 499078          | 670                       | 850  | 212              | 298              | 2.1              | 64.460          |
| 24122 CAM/C3W33 | 110                         | 180      | 69       | 0.08                     | 106110               | 179398          | 1600                      | 2000 | 120              | 170              | 2.0              | 14.586          |
| 24124 CAM/C3W33 | 120                         | 200      | 80       | 0.08                     | 129265               | 224360          | 1400                      | 1800 | 130              | 190              | 2.0              | 21.230          |
| 24126 CAM/C3W33 | 130                         | 210      | 80       | 0.08                     | 131513               | 231554          | 1200                      | 1600 | 140              | 200              | 2.0              | 22.660          |
| 24128 CAM/C3W33 | 140                         | 225      | 85       | 0.08                     | 150622               | 269772          | 1100                      | 1500 | 152              | 213              | 2.1              | 27.500          |
| 24130 CAM/C3W33 | 150                         | 250      | 100      | 0.08                     | 200080               | 359696          | 1000                      | 1300 | 162              | 238              | 2.1              | 41.800          |
| 24132 CAM/C3W33 | 160                         | 270      | 109      | 0.08                     | 233802               | 422643          | 900                       | 1200 | 172              | 258              | 2.1              | 54.120          |
| 24134 CAM/C3W33 | 170                         | 280      | 109      | 0.08                     | 240546               | 433883          | 900                       | 1200 | 182              | 268              | 2.1              | 56.100          |
| 24136 CAM/C3W33 | 180                         | 300      | 118      | 0.12                     | 272020               | 499078          | 800                       | 1000 | 194              | 286              | 2.5              | 70.400          |
| 24138 CAM/C3W33 | 190                         | 320      | 128      | 0.12                     | 316982               | 582258          | 700                       | 1000 | 204              | 306              | 2.5              | 88.440          |





**Bearings  
Limited**  
Est. 1947

**Wholesale Distributor of the Widest Variety of  
Bearing and Power Transmission Products  
in the World**

## Manufactured Products



Bearings

**Deep Groove**  
**Angular Contact**  
**Miniature**  
**Spherical Roller**

**Needle**  
**Mast Guide**  
**Tapered Roller**  
**Spherical Plain**



**Mounted Units**  
**Inserts**  
**Precision Roller Chain**  
**Sprockets - Sheaves**

## Distributed Products

In addition to BL and TRITAN products, Bearings Limited supplies a wide variety of premium bearings from some of the highest quality manufacturers around the world.

### Ball Bearings

Koyo - Japan  
ORS - Turkey  
MTK - Turkey (100mm+)

### Cylindrical Roller Bearings

MTK - Romania/Poland/Turkey  
Koyo - Japan  
American Roller Bearings - USA (oil field specials)

### Spherical Roller Bearings

MTK - Romania/Poland/Turkey  
Koyo - Japan

### Needle Bearings

Koyo - Japan/Czech/USA

### Roller Bearing Housings and Accessories

FSQ - Taiwan

### Precision Ball Bearings

IBC - Germany  
Koyo - Japan  
ORS - Turkey

### Specialty Ball Bearings

JAF - Japan (Cartridge)  
KSK - Japan (Torque Tube)  
Silverthin - USA/China (Thin Section/Slewing Ring)

### Tapered Roller Bearings

A&S Fersa - Spain  
Koyo - Japan

### Miniature Ball Bearings

EZO - Japan

### Linear Motion Bearings

NB - Japan



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