

# POPULAR BALL BEARINGS



CLI deep groove ball bearings are the most widely used rolling bearings. Easy to set up, self-holding and insensitive to maintenance. Deep groove ball bearings are available in a multitude of sizes and designs.

Extremely economical, withstand high load-ratings and are suitable for temperatures from circa  $-10^{\circ}\text{C}$  up to  $+120^{\circ}\text{C}$ , in case of rubber seals up to circa  $+100^{\circ}\text{C}$  in the long run. The rolling bearing steel is wear-resistant, shock-resistant, conductive and magnetic.



Single row

Main dimensions according to DIN 625-1.



Double row

Main dimensions according to DIN 625-3. Considerably higher load carrying capacity than single row bearings at a slightly greater width.



With slot and snap ring

Suitable for the form-fitting axial fixing of the bearing in a bore.

CLI BEARINGS CO., LTD.

## DEEP GROOVE BALL BEARING

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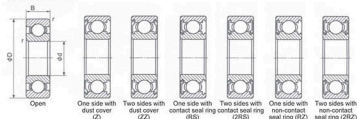
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

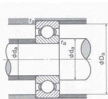
Bore diameter d: 1-4mm



| Principal dimensions (mm) |    |     | Designation |         |             |                   |                       |
|---------------------------|----|-----|-------------|---------|-------------|-------------------|-----------------------|
| d                         | D  | B   | r (min)     | Open    | Shield ring | Contact seal ring | Non-contact seal ring |
| 1                         | 3  | 1   | 0.05        | 618/1   | -           | -                 | -                     |
|                           | 4  | 1.6 | 0.1         | 618/1   | -           | -                 | -                     |
| 1.5                       | 4  | 1.2 | 0.05        | 618/1.5 | -           | -                 | -                     |
|                           | 5  | 2   | 0.15        | 619/1.5 | -           | -                 | -                     |
| 2                         | 6  | 2.5 | 0.15        | 60/1.5  | -           | -                 | -                     |
|                           | 4  | 1.2 | 0.05        | 617/2   | -           | -                 | -                     |
| 2.5                       | 5  | 1.5 | 0.08        | 618/2   | -           | -                 | -                     |
|                           | 6  | 2.3 | 0.15        | 619/2   | -           | -                 | -                     |
| 3                         | 7  | 2.8 | 0.15        | 602     | -           | -                 | -                     |
|                           | 5  | 1.5 | 0.08        | 617/2.5 | -           | -                 | -                     |
| 3.5                       | 6  | 1.8 | 0.08        | 618/2.5 | -           | -                 | -                     |
|                           | 7  | 2.5 | 0.15        | 619/2.5 | -           | -                 | -                     |
| 4                         | 8  | 2.8 | 0.15        | 602.5   | -           | -                 | -                     |
|                           | 6  | 2   | 0.08        | 617/3   | 617/3Z      | 617/3RS           | 617/3RZ               |
| 4.5                       | 7  | 2   | 0.1         | 618/3   | 618/3Z      | 618/3RS           | 618/3RZ               |
|                           | 8  | 3   | 0.15        | 619/3   | 619/3Z      | 619/3RS           | 619/3RZ               |
| 5                         | 9  | 3   | 0.15        | 603     | 603Z        | 603RS             | 603RZ                 |
|                           | 10 | 4   | 0.15        | 623     | 623Z        | 623RS             | 623RZ                 |
| 5.5                       | 7  | 2   | 0.08        | 617/4   | 617/4Z      | 617/4RS           | 617/4RZ               |
|                           | 8  | 2.5 | 0.1         | 618/4   | 618/4Z      | 618/4RS           | 618/4RZ               |
| 6                         | 9  | 3.5 | 0.1         | 628/4   | 628/4Z      | 628/4RS           | 628/4RZ               |
|                           | 11 | 4   | 0.15        | 619/4   | 619/4Z      | 619/4RS           | 619/4RZ               |
| 6.5                       | 12 | 4   | 0.2         | 604     | 604Z        | 604RS             | 604RZ                 |
|                           | 13 | 5   | 0.2         | 624     | 624Z        | 624RS             | 624RZ                 |
| 7                         | 16 | 5   | 0.3         | 634     | 634Z        | 634RS             | 634RZ                 |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



| Basic load rating           |                            | Limiting speed |     | Abutment and fillet Dimensions (mm) |                      |                      | Ref. Weight (g) |
|-----------------------------|----------------------------|----------------|-----|-------------------------------------|----------------------|----------------------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease         | Oil | D <sub>a</sub> (mm)                 | D <sub>a</sub> (max) | r <sub>a</sub> (max) |                 |
| 80                          | 22                         | 120000         | -   | 140000                              | 1.6                  | 2.4                  | 0.05            |
| 157                         | 43                         | 90000          | -   | 110000                              | 1.8                  | 3.2                  | 0.1             |
| 102                         | 29                         | 88000          | -   | 100000                              | 2.3                  | 3.2                  | 0.05            |
| 237                         | 68                         | 79000          | -   | 93000                               | 2.7                  | 3.8                  | 0.15            |
| 274                         | 86                         | 71000          | -   | 84000                               | 2.7                  | 4.8                  | 0.15            |
| 104                         | 37                         | 83000          | -   | 98000                               | 2.5                  | 3.5                  | 0.05            |
| 171                         | 51                         | 74000          | -   | 87000                               | 2.8                  | 4.2                  | 0.08            |
| 279                         | 89                         | 67000          | -   | 79000                               | 3.2                  | 4.8                  | 0.15            |
| 380                         | 125                        | 62000          | -   | 73000                               | 3.2                  | 5.8                  | 0.15            |
| 153                         | 59                         | 70000          | -   | 82000                               | 3.1                  | 4.4                  | 0.08            |
| 209                         | 73                         | 65000          | -   | 76000                               | 3.7                  | 4.8                  | 0.08            |
| 284                         | 96                         | 59000          | -   | 70000                               | 3.7                  | 5.8                  | 0.15            |
| 550                         | 174                        | 56000          | -   | 66000                               | 3.7                  | 6.8                  | 0.15            |
| 242                         | 94                         | 60000          | -   | 71000                               | 3.6                  | 5.4                  | 0.08            |
| 390                         | 130                        | 58000          | -   | 68000                               | 4.2                  | 5.8                  | 0.1             |
| 560                         | 180                        | 54000          | -   | 63000                               | 4.2                  | 6.8                  | 0.15            |
| 635                         | 219                        | 50000          | -   | 59000                               | 4.2                  | 7.8                  | 0.15            |
| 640                         | 224                        | 50000          | -   | 58000                               | 4.2                  | 8.8                  | 0.15            |
| 289                         | 117                        | 54000          | -   | 63000                               | 4.6                  | 6.4                  | 0.08            |
| 640                         | 224                        | 49000          | -   | 57000                               | 5.2                  | 7.8                  | 0.1             |
| 640                         | 224                        | 49000          | -   | 57000                               | -                    | -                    | -               |
| 715                         | 278                        | 45000          | -   | 52000                               | 5.2                  | 9.8                  | 0.15            |
| 970                         | 360                        | 43000          | -   | 51000                               | 5.6                  | 10.4                 | 0.2             |
| 1310                        | 490                        | 42000          | -   | 49000                               | 5.6                  | 11.4                 | 0.2             |
| 1760                        | 680                        | 37000          | -   | 44000                               | 6                    | 14                   | 0.3             |





## DEEP GROOVE BALL BEARING

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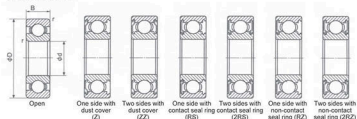
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

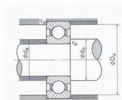
Bore diameter d: 5-9mm



| Principal dimensions (mm) |    |     | Designation |       |             |                   |                       |         |           |
|---------------------------|----|-----|-------------|-------|-------------|-------------------|-----------------------|---------|-----------|
| d                         | D  | B   | r (mm)      | Open  | Shield ring | Contact seal ring | Non-contact seal ring |         |           |
| 5                         | 8  | 2   | 0.08        | 617/5 | 617/5Z      | 617/5RS           | 617/5-2RS             | 617/5RZ | 617/5-2RZ |
|                           | 11 | 3   | 0.15        | 618/5 | 618/5Z      | 618/5RS           | 618/5-2RS             | 618/5RZ | 618/5-2RZ |
|                           | 14 | 4   | 0.15        | 628/5 | 628/5Z      | 628/5RS           | 628/5-2RS             | 628/5RZ | 628/5-2RZ |
|                           | 13 | 4   | 0.2         | 619/5 | 619/5Z      | 619/5RS           | 619/5-2RS             | 619/5RZ | 619/5-2RZ |
|                           | 14 | 5   | 0.2         | 605   | 605Z        | 605RS             | 605-2RS               | 605RZ   | 605-2RZ   |
|                           | 16 | 5   | 0.3         | 625   | 625Z        | 625RS             | 625-2RS               | 625RZ   | 625-2RZ   |
|                           | 19 | 6   | 0.3         | 635   | 635Z        | 635RS             | 635-2RS               | 635RZ   | 635-2RZ   |
|                           | 10 | 2.5 | 0.1         | 617/6 | 617/6Z      | 617/6RS           | 617/6-2RS             | 617/6RZ | 617/6-2RZ |
| 6                         | 13 | 3.5 | 0.15        | 618/6 | 618/6Z      | 618/6RS           | 618/6-2RS             | 618/6RZ | 618/6-2RZ |
|                           | 15 | 5   | 0.15        | 628/6 | 628/6Z      | 628/6RS           | 628/6-2RS             | 628/6RZ | 628/6-2RZ |
|                           | 15 | 5   | 0.2         | 619/6 | 619/6Z      | 619/6RS           | 619/6-2RS             | 619/6RZ | 619/6-2RZ |
|                           | 17 | 6   | 0.3         | 606   | 606Z        | 606RS             | 606-2RS               | 606RZ   | 606-2RZ   |
|                           | 19 | 6   | 0.3         | 626   | 626Z        | 626RS             | 626-2RS               | 626RZ   | 626-2RZ   |
|                           | 11 | 2.5 | 0.1         | 617/7 | 617/7Z      | 617/7RS           | 617/7-2RS             | 617/7RZ | 617/7-2RZ |
|                           | 14 | 3.5 | 0.15        | 618/7 | 618/7Z      | 618/7RS           | 618/7-2RS             | 618/7RZ | 618/7-2RZ |
|                           | 15 | 5   | 0.15        | 628/7 | 628/7Z      | 628/7RS           | 628/7-2RS             | 628/7RZ | 628/7-2RZ |
| 7                         | 17 | 5   | 0.3         | 619/7 | 619/7Z      | 619/7RS           | 619/7-2RS             | 619/7RZ | 619/7-2RZ |
|                           | 19 | 6   | 0.3         | 607   | 607Z        | 607RS             | 607-2RS               | 607RZ   | 607-2RZ   |
|                           | 22 | 7   | 0.3         | 627   | 627Z        | 627RS             | 627-2RS               | 627RZ   | 627-2RZ   |
|                           | 12 | 2.5 | 0.1         | 617/8 | 617/8Z      | 617/8RS           | 617/8-2RS             | 617/8RZ | 617/8-2RZ |
|                           | 16 | 4   | 0.2         | 618/8 | 618/8Z      | 618/8RS           | 618/8-2RS             | 618/8RZ | 618/8-2RZ |
|                           | 18 | 5   | 0.2         | 628/8 | 628/8Z      | 628/8RS           | 628/8-2RS             | 628/8RZ | 628/8-2RZ |
|                           | 19 | 6   | 0.3         | 619/8 | 619/8Z      | 619/8RS           | 619/8-2RS             | 619/8RZ | 619/8-2RZ |
|                           | 22 | 7   | 0.3         | 608   | 608Z        | 608RS             | 608-2RS               | 608RZ   | 608-2RZ   |
| 8                         | 24 | 8   | 0.3         | 628   | 628Z        | 628RS             | 628-2RS               | 628RZ   | 628-2RZ   |
|                           | 14 | 3   | 0.1         | 617/9 | 617/9Z      | 617/9RS           | 617/9-2RS             | 617/9RZ | 617/9-2RZ |
|                           | 17 | 4   | 0.2         | 618/9 | 618/9Z      | 618/9RS           | 618/9-2RS             | 618/9RZ | 618/9-2RZ |
|                           | 18 | 5   | 0.2         | 628/9 | 628/9Z      | 628/9RS           | 628/9-2RS             | 628/9RZ | 628/9-2RZ |
|                           | 20 | 6   | 0.3         | 619/9 | 619/9Z      | 619/9RS           | 619/9-2RS             | 619/9RZ | 619/9-2RZ |
|                           | 24 | 7   | 0.3         | 609   | 609Z        | 609RS             | 609-2RS               | 609RZ   | 609-2RZ   |
|                           | 26 | 8   | 0.3         | 629   | 629Z        | 629RS             | 629-2RS               | 629RZ   | 629-2RZ   |
|                           | 28 | 9   | 0.3         | 639   | 639Z        | 639RS             | 639-2RS               | 639RZ   | 639-2RZ   |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



| Basic load rating           |                           | Limiting speed       |         |         | Abutment and fillet Dimensions (mm) |          |          | Ref. Weight (g) |
|-----------------------------|---------------------------|----------------------|---------|---------|-------------------------------------|----------|----------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>0</sub> (N) | Open, Z, ZZ, RZ, 2RZ | R5, 2RS | Open, Z | Da (mm)                             | Da (max) | ra (max) |                 |
| 292                         | 142                       | 49000                | -       | 57000   | 5.6                                 | 7.4      | 0.08     | 0.32            |
| 715                         | 282                       | 43000                | -       | 51000   | 6.2                                 | 9.8      | 0.15     | 1.1             |
| 715                         | 282                       | 43000                | -       | 51000   | 6.2                                 | 9.8      | 0.15     | -               |
| 1080                        | 430                       | 40000                | -       | 47000   | 6.6                                 | 11.4     | 0.2      | 2.4             |
| 1330                        | 505                       | 39000                | -       | 46000   | 6.6                                 | 12.4     | 0.2      | 3.5             |
| 1760                        | 680                       | 37000                | -       | 44000   | 7                                   | 14       | 0.3      | 4.8             |
| 2340                        | 885                       | 34000                | -       | 40000   | 7                                   | 17       | 0.3      | 8.0             |
| 530                         | 240                       | 43000                | -       | 51000   | 6.8                                 | 9.2      | 0.1      | 0.65            |
| 1080                        | 440                       | 39000                | -       | 46000   | 7.2                                 | 11.8     | 0.15     | 1.9             |
| 1080                        | 440                       | 39000                | -       | 46000   | 7.2                                 | 11.8     | 0.15     | -               |
| 1350                        | 530                       | 37000                | -       | 44000   | 7.6                                 | 13.4     | 0.2      | 3.8             |
| 2190                        | 865                       | 35000                | -       | 42000   | 8                                   | 15       | 0.3      | 6.0             |
| 2340                        | 885                       | 34000                | -       | 40000   | 8                                   | 17       | 0.3      | 8.1             |
| 555                         | 269                       | 40000                | -       | 47000   | 7.8                                 | 10.2     | 0.1      | 0.67            |
| 1170                        | 510                       | 37000                | -       | 44000   | 8.2                                 | 12.8     | 0.15     | 2.1             |
| 1170                        | 510                       | 37000                | -       | 44000   | 8.2                                 | 12.8     | 0.15     | -               |
| 1610                        | 715                       | 35000                | -       | 41000   | 9                                   | 15       | 0.3      | 5.2             |
| 2240                        | 910                       | 34000                | -       | 40000   | 9                                   | 17       | 0.3      | 8.0             |
| 3350                        | 1400                      | 32000                | -       | 37000   | 9                                   | 20       | 0.3      | 13              |
| 575                         | 298                       | 38000                | -       | 45000   | 8.8                                 | 11.2     | 0.1      | 0.75            |
| 1260                        | 585                       | 35000                | -       | 41000   | 9.6                                 | 14.4     | 0.2      | 3.1             |
| 1260                        | 585                       | 35000                | -       | 41000   | 9.6                                 | 14.4     | 0.2      | -               |
| 1990                        | 865                       | 33000                | -       | 39000   | 10                                  | 17       | 0.3      | 7.3             |
| 3350                        | 1400                      | 32000                | -       | 37000   | 10                                  | 20       | 0.3      | 12              |
| 4000                        | 1590                      | 31000                | -       | 36000   | 10                                  | 22       | 0.3      | 17              |
| 920                         | 465                       | 36000                | -       | 42000   | 9.8                                 | 13.2     | 0.1      | 1.4             |
| 1720                        | 820                       | 33000                | -       | 39000   | 10.6                                | 15.4     | 0.2      | 3.2             |
| 1720                        | 820                       | 33000                | -       | 39000   | 10.6                                | 15.4     | 0.2      | -               |
| 2480                        | 1090                      | 32000                | -       | 38000   | 11                                  | 18       | 0.3      | 8.2             |
| 3400                        | 1450                      | 31000                | -       | 36000   | 13                                  | 22       | 0.3      | 14              |
| 4550                        | 1960                      | 30000                | -       | 35000   | 13                                  | 22       | 0.3      | 20              |





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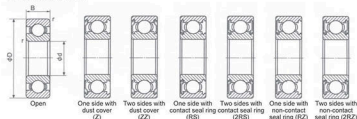
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## Deep groove ball bearing

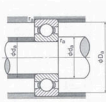
Bore diameter d: 10-17mm



| Principal dimensions (mm) |    |           | Designation |             |                   |                       |           |         |           |
|---------------------------|----|-----------|-------------|-------------|-------------------|-----------------------|-----------|---------|-----------|
| d                         | B  | r<br>(mm) | Open        | Shield ring | Contact seal ring | Non-contact seal ring |           |         |           |
| 10                        | 19 | 0.3       | 61800       | 61800Z      | 61800ZZ           | 61800RS               | 61800-2RS | 61800RZ | 61800-2RZ |
|                           | 19 | 0.6       | 62800       | 62800Z      | 62800ZZ           | 62800RS               | 62800-2RS | 62800RZ | 62800-2RZ |
|                           | 22 | 0.3       | 61900       | 61900Z      | 61900ZZ           | 61900RS               | 61900-2RS | 61900RZ | 61900-2RZ |
|                           | 22 | 0.8       | 62900       | 62900Z      | 62900ZZ           | 62900RS               | 62900-2RS | 62900RZ | 62900-2RZ |
|                           | 26 | 0.3       | 6000        | 6000Z       | 6000ZZ            | 6000RS                | 6000-2RS  | 6000RZ  | 6000-2RZ  |
|                           | 30 | 0.6       | 6200        | 6200Z       | 6200ZZ            | 6200RS                | 6200-2RS  | 6200RZ  | 6200-2RZ  |
|                           | 35 | 1.1       | 6300        | 6300Z       | 6300ZZ            | 6300RS                | 6300-2RS  | 6300RZ  | 6300-2RZ  |
| 12                        | 21 | 0.3       | 61801       | 61801Z      | 61801ZZ           | 61801RS               | 61801-2RS | 61801RZ | 61801-2RZ |
|                           | 21 | 0.6       | 62801       | 62801Z      | 62801ZZ           | 62801RS               | 62801-2RS | 62801RZ | 62801-2RZ |
|                           | 24 | 0.3       | 61901       | 61901Z      | 61901ZZ           | 61901RS               | 61901-2RS | 61901RZ | 61901-2RZ |
|                           | 24 | 0.5       | 62901       | 62901Z      | 62901ZZ           | 62901RS               | 62901-2RS | 62901RZ | 62901-2RZ |
|                           | 28 | 0.3       | 6001        | 6001Z       | 6001ZZ            | 6001RS                | 6001-2RS  | 6001RZ  | 6001-2RZ  |
|                           | 32 | 0.6       | 6201        | 6201Z       | 6201ZZ            | 6201RS                | 6201-2RS  | 6201RZ  | 6201-2RZ  |
|                           | 37 | 1.2       | 6301        | 6301Z       | 6301ZZ            | 6301RS                | 6301-2RS  | 6301RZ  | 6301-2RZ  |
| 15                        | 24 | 0.3       | 61802       | 61802Z      | 61802ZZ           | 61802RS               | 61802-2RS | 61802RZ | 61802-2RZ |
|                           | 24 | 0.6       | 62802       | 62802Z      | 62802ZZ           | 62802RS               | 62802-2RS | 62802RZ | 62802-2RZ |
|                           | 28 | 0.3       | 61902       | 61902Z      | 61902ZZ           | 61902RS               | 61902-2RS | 61902RZ | 61902-2RZ |
|                           | 28 | 0.5       | 62902       | 62902Z      | 62902ZZ           | 62902RS               | 62902-2RS | 62902RZ | 62902-2RZ |
|                           | 32 | 0.3       | 6002        | 6002Z       | 6002ZZ            | 6002RS                | 6002-2RS  | 6002RZ  | 6002-2RZ  |
|                           | 35 | 0.6       | 6202        | 6202Z       | 6202ZZ            | 6202RS                | 6202-2RS  | 6202RZ  | 6202-2RZ  |
|                           | 42 | 1.3       | 6302        | 6302Z       | 6302ZZ            | 6302RS                | 6302-2RS  | 6302RZ  | 6302-2RZ  |
| 17                        | 26 | 0.3       | 61803       | 61803Z      | 61803ZZ           | 61803RS               | 61803-2RS | 61803RZ | 61803-2RZ |
|                           | 26 | 0.3       | 62803       | 62803Z      | 62803ZZ           | 62803RS               | 62803-2RS | 62803RZ | 62803-2RZ |
|                           | 30 | 0.3       | 61903       | 61903Z      | 61903ZZ           | 61903RS               | 61903-2RS | 61903RZ | 61903-2RZ |
|                           | 30 | 0.5       | 62903       | 62903Z      | 62903ZZ           | 62903RS               | 62903-2RS | 62903RZ | 62903-2RZ |
|                           | 35 | 0.3       | 6003        | 6003Z       | 6003ZZ            | 6003RS                | 6003-2RS  | 6003RZ  | 6003-2RZ  |
|                           | 40 | 0.6       | 6203        | 6203Z       | 6203ZZ            | 6203RS                | 6203-2RS  | 6203RZ  | 6203-2RZ  |
|                           | 47 | 1.4       | 6303        | 6303Z       | 6303ZZ            | 6303RS                | 6303-2RS  | 6303RZ  | 6303-2RZ  |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



| Basic load rating           |                            | Limiting speed         |         |         | Abutment and fillet Dimensions (mm) |          |          | Ref Weight (g) |
|-----------------------------|----------------------------|------------------------|---------|---------|-------------------------------------|----------|----------|----------------|
|                             |                            | Grease                 |         | Oil     | Da (mm)                             | Da (max) | ra (max) |                |
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Open, Z<br>ZZ, RZ, 2RZ | RS, 2RS | Open, Z |                                     |          |          |                |
| 2120                        | 985                        | 37000                  | 24000   | 44000   | 12                                  | 17       | 0.3      | 0.005          |
| 2120                        | 985                        | 37000                  | 24000   | 44000   | 12                                  | 17       | 0.3      | -              |
| 2490                        | 1130                       | 33000                  | 22000   | 38000   | 12                                  | 20       | 0.3      | 0.009          |
| 2490                        | 1130                       | 33000                  | 22000   | 38000   | 12                                  | 20       | 0.3      | -              |
| 4550                        | 1970                       | 30000                  | 20000   | 36000   | 12                                  | 24       | 0.3      | 0.019          |
| 5100                        | 2390                       | 24000                  | 17000   | 30000   | 15                                  | 25       | 0.6      | 0.032          |
| 8100                        | 3450                       | 21000                  | 17000   | 26000   | 15                                  | 30       | 0.6      | 0.053          |
| 1920                        | 1040                       | 32000                  | 20000   | 39000   | 14                                  | 19       | 0.3      | 0.006          |
| 1920                        | 1040                       | 32000                  | 20000   | 39000   | 14                                  | 19       | 0.3      | -              |
| 2700                        | 1320                       | 30000                  | 19000   | 35000   | 14                                  | 22       | 0.3      | 0.011          |
| 2700                        | 1320                       | 30000                  | 19000   | 35000   | 14                                  | 22       | 0.3      | -              |
| 5100                        | 2390                       | 27000                  | 17000   | 32000   | 14                                  | 26       | 0.3      | 0.023          |
| 6800                        | 3050                       | 22000                  | 16000   | 27000   | 17                                  | 27       | 0.6      | 0.037          |
| 9750                        | 4250                       | 19000                  | 15000   | 24000   | 18                                  | 31       | 1.0      | 0.060          |
| 2080                        | 1260                       | 27000                  | 16000   | 32000   | 17                                  | 22       | 0.3      | 0.007          |
| 2080                        | 1260                       | 27000                  | 16000   | 32000   | 17                                  | 22       | 0.3      | -              |
| 4300                        | 2250                       | 26000                  | 15000   | 31000   | 17                                  | 26       | 0.3      | 0.016          |
| 4300                        | 2250                       | 26000                  | 15000   | 31000   | 17                                  | 26       | 0.3      | -              |
| 5600                        | 2840                       | 23000                  | -       | 28000   | 20                                  | 27       | 0.3      | 0.025          |
| 5600                        | 2840                       | 23000                  | 14000   | 28000   | 17                                  | 30       | 0.3      | 0.032          |
| 7650                        | 3700                       | 19000                  | 13000   | 24000   | 20                                  | 30       | 0.6      | 0.045          |
| 11400                       | 5400                       | 17000                  | 12000   | 20000   | 21                                  | 36       | 1.0      | 0.082          |
| 2630                        | 1570                       | 25000                  | 15000   | 30000   | 19                                  | 24       | 0.3      | 0.008          |
| 2630                        | 1570                       | 25000                  | 15000   | 30000   | 19                                  | 24       | 0.3      | -              |
| 4600                        | 2560                       | 24000                  | 14000   | 29000   | 19                                  | 28       | 0.3      | 0.018          |
| 4600                        | 2560                       | 24000                  | 14000   | 29000   | 19                                  | 28       | 0.3      | -              |
| 6000                        | 3250                       | 20000                  | -       | 24000   | 22                                  | 30       | 0.3      | 0.032          |
| 6000                        | 3250                       | 20000                  | 13000   | 25000   | 19                                  | 33       | 0.3      | 0.039          |
| 9550                        | 4800                       | 17000                  | 12000   | 21000   | 22                                  | 35       | 0.6      | 0.065          |
| 13600                       | 6550                       | 15000                  | 11000   | 18000   | 23                                  | 41       | 1.0      | 0.115          |





## DEEP GROOVE BALL BEARING

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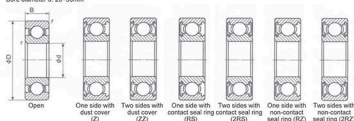
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

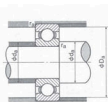
Bore diameter d: 20-30mm



| Principal dimensions (mm) |    | Designation |         |         |             |                   |                       |            |
|---------------------------|----|-------------|---------|---------|-------------|-------------------|-----------------------|------------|
| d                         | B  | B           | r       | Open    | Shield ring | Contact seal ring | Non-contact seal ring |            |
| d                         | B  | B           | r       | Open    | Shield ring | Contact seal ring | Non-contact seal ring |            |
| 32                        | 7  | 0.3         | 61804   | 61804Z  | 61804ZZ     | 61804RS           | 61804RZ               | 61804-2RS  |
| 32                        | 8  | 0.3         | 62804   | 62804Z  | 62804ZZ     | 62804RS           | 62804RZ               | 62804-2RS  |
| 37                        | 9  | 0.3         | 61904   | 61904Z  | 61904ZZ     | 61904RS           | 61904RZ               | 61904-2RS  |
| 37                        | 11 | 0.3         | 62904   | 62904Z  | 62904ZZ     | 62904RS           | 62904RZ               | 62904-2RS  |
| 42                        | 8  | 0.3         | 16004   | 16004Z  | 16004ZZ     | 16004RS           | 16004RZ               | 16004-2RS  |
| 42                        | 12 | 0.6         | 6004    | 6004Z   | 6004ZZ      | 6004RS            | 6004RZ                | 6004-2RS   |
| 47                        | 14 | 1           | 6204    | 6204Z   | 6204ZZ      | 6204RS            | 6204RZ                | 6204-2RS   |
| 52                        | 15 | 1.1         | 6304    | 6304Z   | 6304ZZ      | 6304RS            | 6304RZ                | 6304-2RS   |
| 50                        | 14 | 1           | 62/22Z  | 62/22Z  | 62/22ZZ     | 62/22RS           | 62/22RZ               | 62/22-2RS  |
| 50                        | 11 | 1           | 629/22Z | 629/22Z | 629/22ZZ    | 629/22RS          | 629/22RZ              | 629/22-2RS |
| 56                        | 16 | 1.1         | 63/22Z  | 63/22Z  | 63/22ZZ     | 63/22RS           | 63/22RZ               | 63/22-2RS  |
| 37                        | 7  | 0.3         | 61805Z  | 61805Z  | 61805ZZ     | 61805RS           | 61805RZ               | 61805-2RS  |
| 37                        | 8  | 0.3         | 62805Z  | 62805Z  | 62805ZZ     | 62805RS           | 62805RZ               | 62805-2RS  |
| 42                        | 9  | 0.3         | 61905Z  | 61905Z  | 61905ZZ     | 61905RS           | 61905RZ               | 61905-2RS  |
| 42                        | 11 | 0.3         | 62905Z  | 62905Z  | 62905ZZ     | 62905RS           | 62905RZ               | 62905-2RS  |
| 47                        | 8  | 0.3         | 16005Z  | 16005Z  | 16005ZZ     | 16005RS           | 16005RZ               | 16005-2RS  |
| 47                        | 12 | 0.6         | 6005Z   | 6005Z   | 6005ZZ      | 6005RS            | 6005RZ                | 6005-2RS   |
| 52                        | 15 | 1           | 6205Z   | 6205Z   | 6205ZZ      | 6205RS            | 6205RZ                | 6205-2RS   |
| 62                        | 17 | 1.1         | 6305Z   | 6305Z   | 6305ZZ      | 6305RS            | 6305RZ                | 6305-2RS   |
| 56                        | 16 | 1           | 62/28Z  | 62/28Z  | 62/28ZZ     | 62/28RS           | 62/28RZ               | 62/28-2RS  |
| 56                        | 11 | 1           | 629/28Z | 629/28Z | 629/28ZZ    | 629/28RS          | 629/28RZ              | 629/28-2RS |
| 68                        | 18 | 1.1         | 63/28Z  | 63/28Z  | 63/28ZZ     | 63/28RS           | 63/28RZ               | 63/28-2RS  |
| 42                        | 7  | 0.3         | 61806Z  | 61806Z  | 61806ZZ     | 61806RS           | 61806RZ               | 61806-2RS  |
| 42                        | 8  | 0.3         | 62806Z  | 62806Z  | 62806ZZ     | 62806RS           | 62806RZ               | 62806-2RS  |
| 47                        | 9  | 0.3         | 61906Z  | 61906Z  | 61906ZZ     | 61906RS           | 61906RZ               | 61906-2RS  |
| 47                        | 9  | 0.3         | 62906Z  | 62906Z  | 62906ZZ     | 62906RS           | 62906RZ               | 62906-2RS  |
| 55                        | 9  | 0.3         | 16006Z  | 16006Z  | 16006ZZ     | 16006RS           | 16006RZ               | 16006-2RS  |
| 55                        | 13 | 1           | 6006Z   | 6006Z   | 6006ZZ      | 6006RS            | 6006RZ                | 6006-2RS   |
| 62                        | 16 | 1           | 6206Z   | 6206Z   | 6206ZZ      | 6206RS            | 6206RZ                | 6206-2RS   |
| 72                        | 19 | 1.1         | 6306Z   | 6306Z   | 6306ZZ      | 6306RS            | 6306RZ                | 6306-2RS   |

\*The color of rubber seals may VARY.

\*All bearings are available in STAINLESS STEEL.



| Basic load rating           |                            | Limiting speed       |              | Abutment and fillet Dimensions (mm) |          |          | Ref. Weight (g) |
|-----------------------------|----------------------------|----------------------|--------------|-------------------------------------|----------|----------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Open, Z, ZZ, RS, 2RS | Oil, Open, Z | Da (mm)                             | Da (max) | ra (max) |                 |
| 4000                        | 2640                       | 20000                | 12000        | 24000                               | 22       | 30       | 0.019           |
| 4000                        | 2640                       | 20000                | 12000        | 24000                               | 22       | 30       | 0.3             |
| 6350                        | 3700                       | 19000                | 11000        | 23000                               | 22       | 35       | 0.036           |
| 6350                        | 3700                       | 19000                | 11000        | 23000                               | 22       | 35       | 0.3             |
| 7900                        | 4500                       | 17000                | -            | 21000                               | 25       | 37       | 0.050           |
| 9400                        | 5000                       | 17000                | 11000        | 21000                               | 24       | 38       | 0.070           |
| 12800                       | 6600                       | 14000                | 10000        | 18000                               | 26       | 41       | 0.106           |
| 15900                       | 7900                       | 13000                | 9500         | 16000                               | 27       | 45       | 0.144           |
| 13900                       | 6950                       | 13000                | 9000         | 17000                               | 28       | 44       | 0.120           |
| -                           | -                          | -                    | -            | -                                   | -        | -        | -               |
| 18400                       | 9250                       | 12000                | 8000         | 15000                               | 29       | 49       | 0.176           |
| 4300                        | 2940                       | 18000                | 10000        | 20000                               | 27       | 35       | 0.022           |
| 4300                        | 2940                       | 18000                | 10000        | 20000                               | 27       | 35       | 0.3             |
| 7000                        | 4500                       | 16000                | 9500         | 20000                               | 27       | 40       | 0.042           |
| 7000                        | 4500                       | 16000                | 9500         | 20000                               | 27       | 40       | 0.3             |
| 6950                        | 4600                       | 15000                | -            | 18000                               | 30       | 42       | 0.060           |
| 10100                       | 5850                       | 15000                | 9000         | 18000                               | 29       | 43       | 0.079           |
| 14000                       | 7900                       | 12000                | 8500         | 16000                               | 31       | 46       | 0.128           |
| 23800                       | 12100                      | 11000                | 8000         | 14000                               | 32       | 55       | 0.232           |
| 17900                       | 9750                       | 11000                | 8200         | 14000                               | 34       | 52       | 0.175           |
| -                           | -                          | -                    | -            | -                                   | -        | -        | -               |
| 26800                       | 14000                      | 10000                | 7000         | 12000                               | 35       | 61       | 0.287           |
| 5350                        | 3800                       | 15000                | 8700         | 17000                               | 32       | 40       | 0.026           |
| 5350                        | 3800                       | 15000                | 8700         | 17000                               | 32       | 40       | 0.3             |
| 7250                        | 5000                       | 14000                | 8200         | 16000                               | 32       | 45       | 0.045           |
| 7250                        | 5000                       | 14000                | 8200         | 16000                               | 32       | 45       | 0.3             |
| 9950                        | 6550                       | 12000                | -            | 15000                               | 35       | 50       | 0.085           |
| 13200                       | 8300                       | 12000                | 7700         | 15000                               | 35       | 50       | 0.117           |
| 19500                       | 11300                      | 10000                | 7300         | 13000                               | 36       | 56       | 0.199           |
| 26700                       | 15000                      | 9200                 | 6800         | 11000                               | 37       | 65       | 0.346           |





## DEEP GROOVE BALL BEARING

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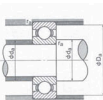
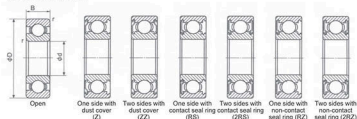
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

Bore diameter d: 32-50mm



| Principal dimensions (mm) |    | Designation |        |             |                   |                       |          |            |
|---------------------------|----|-------------|--------|-------------|-------------------|-----------------------|----------|------------|
| d                         | B  | r           | Open   | Shield ring | Contact seal ring | Non-contact seal ring |          |            |
| d                         | B  | r           | (mm)   |             |                   |                       |          |            |
| 65                        | 17 | 1           | 62/32  | 62/32Z      | 62/32ZZ           | 62/32RS               | 62/32RZ  | 62/32-2RZ  |
| 32                        | 52 | 13          | 628/32 | 628/32Z     | 628/32ZZ          | 628/32RS              | 628/32RZ | 628/32-2RZ |
| 75                        | 20 | 1.1         | 63/32  | 63/32Z      | 63/32ZZ           | 63/32RS               | 63/32RZ  | 63/32-2RZ  |
| 47                        | 7  | 0.3         | 618/07 | 618/07Z     | 618/07ZZ          | 618/07RS              | 618/07RZ | 618/07-2RZ |
| 47                        | 8  | 0.3         | 628/07 | 628/07Z     | 628/07ZZ          | 628/07RS              | 628/07RZ | 628/07-2RZ |
| 55                        | 10 | 0.6         | 619/07 | 619/07Z     | 619/07ZZ          | 619/07RS              | 619/07RZ | 619/07-2RZ |
| 55                        | 13 | 0.6         | 629/07 | 629/07Z     | 629/07ZZ          | 629/07RS              | 629/07RZ | 629/07-2RZ |
| 62                        | 9  | 0.3         | 600/07 | 600/07Z     | 600/07ZZ          | 600/07RS              | 600/07RZ | 600/07-2RZ |
| 62                        | 14 | 1           | 600/14 | 600/14Z     | 600/14ZZ          | 600/14RS              | 600/14RZ | 600/14-2RZ |
| 72                        | 17 | 1.1         | 620/17 | 620/17Z     | 620/17ZZ          | 620/17RS              | 620/17RZ | 620/17-2RZ |
| 80                        | 21 | 1.5         | 630/21 | 630/21Z     | 630/21ZZ          | 630/21RS              | 630/21RZ | 630/21-2RZ |
| 52                        | 7  | 0.3         | 618/08 | 618/08Z     | 618/08ZZ          | 618/08RS              | 618/08RZ | 618/08-2RZ |
| 52                        | 8  | 0.3         | 628/08 | 628/08Z     | 628/08ZZ          | 628/08RS              | 628/08RZ | 628/08-2RZ |
| 62                        | 12 | 0.6         | 619/08 | 619/08Z     | 619/08ZZ          | 619/08RS              | 619/08RZ | 619/08-2RZ |
| 62                        | 14 | 0.6         | 629/08 | 629/08Z     | 629/08ZZ          | 629/08RS              | 629/08RZ | 629/08-2RZ |
| 68                        | 9  | 0.3         | 600/08 | 600/08Z     | 600/08ZZ          | 600/08RS              | 600/08RZ | 600/08-2RZ |
| 68                        | 15 | 1           | 600/15 | 600/15Z     | 600/15ZZ          | 600/15RS              | 600/15RZ | 600/15-2RZ |
| 80                        | 18 | 1.1         | 620/18 | 620/18Z     | 620/18ZZ          | 620/18RS              | 620/18RZ | 620/18-2RZ |
| 90                        | 23 | 1.5         | 630/23 | 630/23Z     | 630/23ZZ          | 630/23RS              | 630/23RZ | 630/23-2RZ |
| 58                        | 7  | 0.3         | 618/09 | 618/09Z     | 618/09ZZ          | 618/09RS              | 618/09RZ | 618/09-2RZ |
| 58                        | 8  | 0.3         | 628/09 | 628/09Z     | 628/09ZZ          | 628/09RS              | 628/09RZ | 628/09-2RZ |
| 68                        | 12 | 0.6         | 619/09 | 619/09Z     | 619/09ZZ          | 619/09RS              | 619/09RZ | 619/09-2RZ |
| 68                        | 14 | 0.6         | 629/09 | 629/09Z     | 629/09ZZ          | 629/09RS              | 629/09RZ | 629/09-2RZ |
| 75                        | 10 | 0.6         | 600/09 | 600/09Z     | 600/09ZZ          | 600/09RS              | 600/09RZ | 600/09-2RZ |
| 75                        | 16 | 1           | 600/16 | 600/16Z     | 600/16ZZ          | 600/16RS              | 600/16RZ | 600/16-2RZ |
| 85                        | 19 | 1.1         | 620/19 | 620/19Z     | 620/19ZZ          | 620/19RS              | 620/19RZ | 620/19-2RZ |
| 100                       | 25 | 1.5         | 630/25 | 630/25Z     | 630/25ZZ          | 630/25RS              | 630/25RZ | 630/25-2RZ |
| 65                        | 7  | 0.3         | 618/10 | 618/10Z     | 618/10ZZ          | 618/10RS              | 618/10RZ | 618/10-2RZ |
| 65                        | 10 | 0.3         | 628/10 | 628/10Z     | 628/10ZZ          | 628/10RS              | 628/10RZ | 628/10-2RZ |
| 72                        | 12 | 0.6         | 619/10 | 619/10Z     | 619/10ZZ          | 619/10RS              | 619/10RZ | 619/10-2RZ |
| 72                        | 14 | 0.6         | 629/10 | 629/10Z     | 629/10ZZ          | 629/10RS              | 629/10RZ | 629/10-2RZ |
| 80                        | 10 | 0.6         | 600/10 | 600/10Z     | 600/10ZZ          | 600/10RS              | 600/10RZ | 600/10-2RZ |
| 80                        | 16 | 1           | 601/16 | 601/16Z     | 601/16ZZ          | 601/16RS              | 601/16RZ | 601/16-2RZ |
| 90                        | 20 | 1.1         | 621/20 | 621/20Z     | 621/20ZZ          | 621/20RS              | 621/20RZ | 621/20-2RZ |
| 110                       | 27 | 2           | 631/27 | 631/27Z     | 631/27ZZ          | 631/27RS              | 631/27RZ | 631/27-2RZ |

| Basic load rating           |                            | Limiting speed |      | Abutment and fillet Dimensions (mm) |         |          | Ref. Weight (g) |
|-----------------------------|----------------------------|----------------|------|-------------------------------------|---------|----------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease         | Oil  | Open, Z                             | Da (mm) | ra (max) |                 |
| 22400                       | 13100                      | 9500           | 7000 | 12000                               | 38      | 59       | 1.0             |
| 30000                       | 16200                      | 9000           | 6000 | 11000                               | 39      | 68       | 1.0             |
| 4750                        | 3800                       | 13000          | 7600 | 15000                               | 37      | 45       | 0.3             |
| 4750                        | 3800                       | 13000          | 7600 | 15000                               | 37      | 45       | 0.3             |
| 10400                       | 7150                       | 12000          | 7000 | 14000                               | 39      | 51       | 0.6             |
| 10400                       | 7150                       | 12000          | 7000 | 14000                               | 39      | 51       | 0.6             |
| 11700                       | 8150                       | 11000          | -    | 13000                               | 40      | 57       | 0.3             |
| 16000                       | 10300                      | 11000          | 6800 | 13000                               | 40      | 57       | 1.0             |
| 25700                       | 15300                      | 9000           | 6300 | 11000                               | 42      | 65       | 1.0             |
| 33500                       | 19200                      | 8400           | 5900 | 10000                               | 44      | 71       | 1.5             |
| 5950                        | 4900                       | 12000          | 6700 | 14000                               | 42      | 50       | 0.3             |
| 5950                        | 4900                       | 12000          | 6700 | 14000                               | 42      | 50       | 0.3             |
| 13700                       | 9950                       | 11000          | 6100 | 13000                               | 44      | 58       | 0.6             |
| 13700                       | 9950                       | 11000          | 6100 | 13000                               | 44      | 58       | 0.6             |
| 11100                       | 8550                       | 9700           | -    | 12000                               | 45      | 63       | 0.3             |
| 16800                       | 11500                      | 9500           | 6000 | 12000                               | 45      | 63       | 1.0             |
| 29100                       | 17900                      | 8200           | 5600 | 10000                               | 47      | 73       | 1.0             |
| 40500                       | 24100                      | 7500           | 5200 | 9000                                | 49      | 81       | 1.5             |
| 5350                        | 4900                       | 11000          | 5900 | 13000                               | 47      | 56       | 0.3             |
| 5350                        | 4900                       | 11000          | 5900 | 13000                               | 47      | 56       | 0.3             |
| 14100                       | 10900                      | 10000          | 5600 | 12000                               | 49      | 64       | 0.6             |
| 14100                       | 10900                      | 10000          | 5600 | 12000                               | 49      | 64       | 0.6             |
| 12900                       | 10500                      | 9000           | -    | 11000                               | 52      | 68       | 0.6             |
| 20900                       | 15200                      | 8800           | 5300 | 11000                               | 50      | 70       | 1.0             |
| 32500                       | 20500                      | 7600           | 5100 | 9300                                | 52      | 78       | 1.0             |
| 53000                       | 32000                      | 6700           | 4600 | 8200                                | 54      | 91       | 1.5             |
| 6400                        | 5800                       | 10000          | 5300 | 12000                               | 52      | 63       | 0.3             |
| 6400                        | 5800                       | 10000          | 5300 | 12000                               | 52      | 63       | 0.3             |
| 14500                       | 11700                      | 9500           | 5100 | 11000                               | 54      | 68       | 0.6             |
| 14500                       | 11700                      | 9500           | 5100 | 11000                               | 54      | 68       | 0.6             |
| 16100                       | 13100                      | 8300           | -    | 10000                               | 57      | 73       | 0.6             |
| 21800                       | 16600                      | 8300           | 4800 | 10000                               | 55      | 75       | 1.0             |
| 35000                       | 23200                      | 7000           | 4700 | 8600                                | 57      | 83       | 1.0             |
| 62000                       | 38000                      | 6200           | 4100 | 7300                                | 60      | 100      | 2.0             |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



## DEEP GROOVE BALL BEARING

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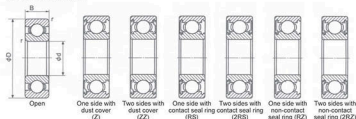
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

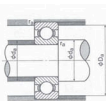
Bore diameter d: 55-70mm



| Principal dimensions (mm) |      | Designation |       |             |                   |                       |           |         |
|---------------------------|------|-------------|-------|-------------|-------------------|-----------------------|-----------|---------|
| d                         | B    | r           | Open  | Shield ring | Contact seal ring | Non-contact seal ring |           |         |
| (mm)                      | (mm) | (mm)        |       |             |                   |                       |           |         |
| 72                        | 9    | 0.3         | 61811 | 61811Z      | 618112Z           | 61811RS               | 61811-2RS | 61811RZ |
| 72                        | 11   | 0.3         | 62811 | 62811Z      | 628112Z           | 62811RS               | 62811-2RS | 62811RZ |
| 80                        | 13   | 1           | 61911 | 61911Z      | 619112Z           | 61911RS               | 61911-2RS | 61911RZ |
| 80                        | 16   | 1           | 62911 | 62911Z      | 629112Z           | 62911RS               | 62911-2RS | 62911RZ |
| 90                        | 11   | 0.6         | 16011 | 16011Z      | 160112Z           | 16011RS               | 16011-2RS | 16011RZ |
| 90                        | 18   | 1.1         | 6011  | 6011Z       | 60112Z            | 6011RS                | 6011-2RS  | 6011RZ  |
| 100                       | 21   | 1.5         | 6211  | 6211Z       | 62112Z            | 6211RS                | 6211-2RS  | 6211RZ  |
| 120                       | 29   | 2           | 6311  | 6311Z       | 63112Z            | 6311RS                | 6311-2RS  | 6311RZ  |
| 78                        | 10   | 0.3         | 61812 | 61812Z      | 618122Z           | 61812RS               | 61812-2RS | 61812RZ |
| 78                        | 12   | 0.3         | 62812 | 62812Z      | 628122Z           | 62812RS               | 62812-2RS | 62812RZ |
| 85                        | 13   | 1           | 61912 | 61912Z      | 619122Z           | 61912RS               | 61912-2RS | 61912RZ |
| 85                        | 16   | 1           | 62912 | 62912Z      | 629122Z           | 62912RS               | 62912-2RS | 62912RZ |
| 95                        | 11   | 0.6         | 16012 | 16012Z      | 160122Z           | 16012RS               | 16012-2RS | 16012RZ |
| 95                        | 18   | 1.1         | 6012  | 6012Z       | 60122Z            | 6012RS                | 6012-2RS  | 6012RZ  |
| 110                       | 22   | 1.5         | 6212  | 6212Z       | 62122Z            | 6212RS                | 6212-2RS  | 6212RZ  |
| 130                       | 31   | 2.1         | 6312  | 6312Z       | 63122Z            | 6312RS                | 6312-2RS  | 6312RZ  |
| 85                        | 10   | 0.6         | 61813 | 61813Z      | 618132Z           | 61813RS               | 61813-2RS | 61813RZ |
| 85                        | 13   | 0.6         | 62813 | 62813Z      | 628132Z           | 62813RS               | 62813-2RS | 62813RZ |
| 90                        | 13   | 1           | 61913 | 61913Z      | 619132Z           | 61913RS               | 61913-2RS | 61913RZ |
| 90                        | 16   | 1           | 62913 | 62913Z      | 629132Z           | 62913RS               | 62913-2RS | 62913RZ |
| 100                       | 11   | 0.6         | 16013 | 16013Z      | 160132Z           | 16013RS               | 16013-2RS | 16013RZ |
| 100                       | 18   | 1.1         | 6013  | 6013Z       | 60132Z            | 6013RS                | 6013-2RS  | 6013RZ  |
| 120                       | 22   | 1.5         | 6213  | 6213Z       | 62132Z            | 6213RS                | 6213-2RS  | 6213RZ  |
| 140                       | 31   | 2.1         | 6313  | 6313Z       | 63132Z            | 6313RS                | 6313-2RS  | 6313RZ  |
| 90                        | 10   | 0.6         | 61814 | 61814Z      | 618142Z           | 61814RS               | 61814-2RS | 61814RZ |
| 90                        | 13   | 0.6         | 62814 | 62814Z      | 628142Z           | 62814RS               | 62814-2RS | 62814RZ |
| 100                       | 16   | 1           | 61914 | 61914Z      | 619142Z           | 61914RS               | 61914-2RS | 61914RZ |
| 100                       | 19   | 1           | 62914 | 62914Z      | 629142Z           | 62914RS               | 62914-2RS | 62914RZ |
| 110                       | 13   | 0.6         | 16014 | 16014Z      | 160142Z           | 16014RS               | 16014-2RS | 16014RZ |
| 110                       | 20   | 1.1         | 6014  | 6014Z       | 60142Z            | 6014RS                | 6014-2RS  | 6014RZ  |
| 125                       | 24   | 1.5         | 6214  | 6214Z       | 62142Z            | 6214RS                | 6214-2RS  | 6214RZ  |
| 150                       | 35   | 2.1         | 6314  | 6314Z       | 63142Z            | 6314RS                | 6314-2RS  | 6314RZ  |

\*The color of rubber seals may VARY.

\*All bearings are available in STAINLESS STEEL.



| Basic load rating           |                            | Limiting speed              |                     | Abutment and fillet Dimensions (mm) |          |          | Ref. Weight (g) |
|-----------------------------|----------------------------|-----------------------------|---------------------|-------------------------------------|----------|----------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease Open, Z, ZZ, RZ, 2RZ | Oil RS, 2RS Open, Z | Da (mm)                             | Da (max) | ra (max) |                 |
| 8800                        | 8100                       | 8500                        | -                   | 10000                               | 57       | 70       | 0.3             |
| 8800                        | 8100                       | 8500                        | -                   | 10000                               | 57       | 70       | 0.3             |
| 16000                       | 13200                      | 8000                        | -                   | 9000                                | 60       | 75       | 1.0             |
| 16000                       | 13200                      | 8000                        | -                   | 9000                                | 60       | 75       | 1.0             |
| 15200                       | 13500                      | 7500                        | -                   | 9000                                | 62       | 83       | 0.6             |
| 28300                       | 21300                      | 7500                        | 4400                | 9000                                | 61       | 84       | 1.0             |
| 43500                       | 29300                      | 6300                        | 4200                | 7700                                | 64       | 91       | 1.5             |
| 71500                       | 44500                      | 5600                        | 3800                | 6600                                | 65       | 110      | 2.0             |
| 11500                       | 10600                      | 8000                        | -                   | 9500                                | 62       | 76       | 0.3             |
| 11500                       | 10600                      | 8000                        | -                   | 9500                                | 62       | 76       | 0.3             |
| 15200                       | 13500                      | 7500                        | -                   | 9000                                | 65       | 80       | 1.0             |
| 15200                       | 13500                      | 7500                        | -                   | 9000                                | 65       | 80       | 1.0             |
| 16200                       | 14300                      | 7000                        | -                   | 8200                                | 67       | 88       | 0.6             |
| 29400                       | 23200                      | 7000                        | 4100                | 8300                                | 66       | 89       | 1.0             |
| 52500                       | 36000                      | 5800                        | 3800                | 7100                                | 69       | 101      | 1.5             |
| 82000                       | 52000                      | 5100                        | 3500                | 6100                                | 72       | 118      | 2.0             |
| 11900                       | 11500                      | 7500                        | -                   | 8500                                | 69       | 81       | 0.6             |
| 11900                       | 11500                      | 7500                        | -                   | 8500                                | 69       | 81       | 0.6             |
| 17400                       | 16000                      | 7000                        | -                   | 8500                                | 65       | 85       | 1.0             |
| 17400                       | 16000                      | 7000                        | -                   | 8500                                | 65       | 85       | 1.0             |
| 20500                       | 18600                      | 6500                        | -                   | 7500                                | 67       | 93       | 0.6             |
| 30500                       | 25200                      | 8500                        | 3800                | 7800                                | 66       | 94       | 1.0             |
| 57000                       | 40000                      | 5300                        | 3500                | 6500                                | 69       | 111      | 1.5             |
| 92500                       | 59500                      | 4700                        | 3300                | 5700                                | 72       | 128      | 2.0             |
| 12100                       | 11900                      | 7000                        | -                   | 8000                                | 69       | 86       | 0.6             |
| 12100                       | 11900                      | 7000                        | -                   | 8000                                | 69       | 86       | 0.6             |
| 23700                       | 21100                      | 6500                        | -                   | 7500                                | 70       | 95       | 1.0             |
| 23700                       | 21100                      | 6500                        | -                   | 7500                                | 70       | 95       | 1.0             |
| 26800                       | 23600                      | 6000                        | -                   | 7000                                | 72       | 103      | 0.6             |
| 38000                       | 31000                      | 6000                        | 3500                | 7100                                | 71       | 104      | 1.0             |
| 62000                       | 44000                      | 5000                        | 3300                | 5900                                | 74       | 116      | 1.5             |
| 104000                      | 68000                      | 4400                        | 3100                | 5300                                | 77       | 138      | 2.0             |







## DEEP GROOVE BALL BEARING

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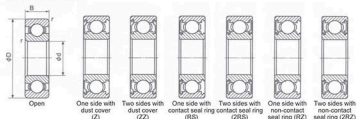
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

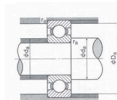
Bore diameter d: 75-90mm



| Principal dimensions (mm) |     |        | Designation |             |                   |                       |           |         |
|---------------------------|-----|--------|-------------|-------------|-------------------|-----------------------|-----------|---------|
| d                         | B   | r (mm) | Open        | Shield ring | Contact seal ring | Non-contact seal ring |           |         |
| 75                        | 95  | 10 0.6 | 61815       | 61815Z      | 61815ZZ           | 61815RS               | 61815-2RS | 61815RZ |
|                           | 95  | 13 0.6 | 62815       | 62815Z      | 62815ZZ           | 62815RS               | 62815-2RS | 62815RZ |
|                           | 105 | 16 1   | 61915       | 61915Z      | 61915ZZ           | 61915RS               | 61915-2RS | 61915RZ |
|                           | 105 | 19 1   | 62915       | 62915Z      | 62915ZZ           | 62915RS               | 62915-2RS | 62915RZ |
|                           | 115 | 13 0.6 | 6015        | 6015Z       | 6015ZZ            | 6015RS                | 6015-2RS  | 6015RZ  |
|                           | 115 | 20 1.1 | 6015        | 6015Z       | 6015ZZ            | 6015RS                | 6015-2RS  | 6015RZ  |
|                           | 130 | 25 1.5 | 6215        | 6215Z       | 6215ZZ            | 6215RS                | 6215-2RS  | 6215RZ  |
|                           | 160 | 37 2.1 | 6315        | 6315Z       | 6315ZZ            | 6315RS                | 6315-2RS  | 6315RZ  |
| 80                        | 100 | 10 0.6 | 61816       | 61816Z      | 61816ZZ           | 61816RS               | 61816-2RS | 61816RZ |
|                           | 100 | 13 0.6 | 62816       | 62816Z      | 62816ZZ           | 62816RS               | 62816-2RS | 62816RZ |
|                           | 110 | 16 1   | 61916       | 61916Z      | 61916ZZ           | 61916RS               | 61916-2RS | 61916RZ |
|                           | 110 | 19 1   | 62916       | 62916Z      | 62916ZZ           | 62916RS               | 62916-2RS | 62916RZ |
|                           | 125 | 14 0.6 | 6016        | 6016Z       | 6016ZZ            | 6016RS                | 6016-2RS  | 6016RZ  |
|                           | 125 | 22 1.1 | 6016        | 6016Z       | 6016ZZ            | 6016RS                | 6016-2RS  | 6016RZ  |
|                           | 140 | 26 2   | 6216        | 6216Z       | 6216ZZ            | 6216RS                | 6216-2RS  | 6216RZ  |
|                           | 170 | 39 2.1 | 6316        | 6316Z       | 6316ZZ            | 6316RS                | 6316-2RS  | 6316RZ  |
| 85                        | 110 | 13 1   | 61817       | 61817Z      | 61817ZZ           | 61817RS               | 61817-2RS | 61817RZ |
|                           | 110 | 16 1   | 62817       | 62817Z      | 62817ZZ           | 62817RS               | 62817-2RS | 62817RZ |
|                           | 120 | 18 1   | 61917       | 61917Z      | 61917ZZ           | 61917RS               | 61917-2RS | 61917RZ |
|                           | 120 | 22 1.1 | 62917       | 62917Z      | 62917ZZ           | 62917RS               | 62917-2RS | 62917RZ |
|                           | 130 | 14 0.6 | 6017        | 6017Z       | 6017ZZ            | 6017RS                | 6017-2RS  | 6017RZ  |
|                           | 130 | 22 1.1 | 6017        | 6017Z       | 6017ZZ            | 6017RS                | 6017-2RS  | 6017RZ  |
|                           | 150 | 28 2   | 6217        | 6217Z       | 6217ZZ            | 6217RS                | 6217-2RS  | 6217RZ  |
|                           | 180 | 41 3   | 6317        | 6317Z       | 6317ZZ            | 6317RS                | 6317-2RS  | 6317RZ  |
| 90                        | 115 | 13 1   | 61818       | 61818Z      | 61818ZZ           | 61818RS               | 61818-2RS | 61818RZ |
|                           | 115 | 16 1   | 62818       | 62818Z      | 62818ZZ           | 62818RS               | 62818-2RS | 62818RZ |
|                           | 125 | 18 1   | 61918       | 61918Z      | 61918ZZ           | 61918RS               | 61918-2RS | 61918RZ |
|                           | 125 | 22 1.1 | 62918       | 62918Z      | 62918ZZ           | 62918RS               | 62918-2RS | 62918RZ |
|                           | 140 | 16 1   | 6018        | 6018Z       | 6018ZZ            | 6018RS                | 6018-2RS  | 6018RZ  |
|                           | 140 | 24 1.5 | 6018        | 6018Z       | 6018ZZ            | 6018RS                | 6018-2RS  | 6018RZ  |
|                           | 160 | 30 2   | 6218        | 6218Z       | 6218ZZ            | 6218RS                | 6218-2RS  | 6218RZ  |
|                           | 190 | 43 3   | 6318        | 6318Z       | 6318ZZ            | 6318RS                | 6318-2RS  | 6318RZ  |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



| Basic load rating           |                            | Limiting speed |      |         | Abutment and fillet Dimensions (mm) |          |          | Ref. Weight (g) |
|-----------------------------|----------------------------|----------------|------|---------|-------------------------------------|----------|----------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease         | Oil  | Open, Z | Da (mm)                             | Da (max) | ra (max) |                 |
| 12500                       | 12800                      | 6500           | -    | 7500    | 79                                  | 91       | 0.6      | 0.145           |
| 12500                       | 12800                      | 6500           | -    | 7500    | 79                                  | 91       | 0.6      | -               |
| 20800                       | 19700                      | 6200           | -    | 7200    | 80                                  | 100      | 1.0      | 0.345           |
| 20800                       | 19700                      | 6200           | -    | 7200    | 80                                  | 100      | 1.0      | -               |
| 27600                       | 25300                      | 5500           | -    | 6500    | 82                                  | 108      | 0.6      | 0.457           |
| 39500                       | 33500                      | 5700           | 3300 | 6700    | 81                                  | 109      | 1.0      | 0.645           |
| 66000                       | 49500                      | 4800           | 3100 | 5600    | 84                                  | 121      | 1.5      | 1.18            |
| 113000                      | 77000                      | 4100           | 2900 | 5000    | 87                                  | 148      | 2.0      | 3.02            |
| 12700                       | 13300                      | 6000           | -    | 7000    | 84                                  | 96       | 0.6      | 0.155           |
| 12700                       | 13300                      | 6000           | -    | 7000    | 84                                  | 96       | 0.6      | -               |
| 27600                       | 25300                      | 5500           | -    | 6500    | 85                                  | 105      | 1.0      | 0.363           |
| 27600                       | 25300                      | 5500           | -    | 6500    | 85                                  | 105      | 1.0      | -               |
| 32000                       | 29600                      | 5300           | -    | 6200    | 87                                  | 118      | 0.6      | 0.597           |
| 47500                       | 39500                      | 5300           | -    | 6200    | 86                                  | 119      | 1.0      | 0.855           |
| 72500                       | 53000                      | 4500           | 3000 | 5200    | 90                                  | 130      | 2.0      | 1.40            |
| 123000                      | 80500                      | 3800           | 2700 | 4500    | 92                                  | 158      | 2.0      | 3.59            |
| 18700                       | 19000                      | 5500           | -    | 6500    | 90                                  | 105      | 1.0      | 0.285           |
| 18700                       | 19000                      | 5500           | -    | 6500    | 90                                  | 105      | 1.0      | -               |
| 32000                       | 29600                      | 5200           | -    | 6300    | 91                                  | 113      | 1.0      | 0.517           |
| 32000                       | 29600                      | 5200           | -    | 6300    | 91                                  | 113      | 1.0      | -               |
| 31500                       | 29800                      | 5000           | -    | 6000    | 92                                  | 123      | 0.6      | 0.626           |
| 49500                       | 43000                      | 5000           | -    | 6000    | 91                                  | 124      | 1.1      | 0.895           |
| 84000                       | 62000                      | 4200           | 2800 | 4900    | 95                                  | 140      | 2.0      | 1.79            |
| 133000                      | 90500                      | 3600           | 2600 | 4300    | 99                                  | 166      | 2.5      | 4.23            |
| 19000                       | 19700                      | 5300           | -    | 6200    | 95                                  | 110      | 1.0      | 0.280           |
| 19000                       | 19700                      | 5300           | -    | 6200    | 95                                  | 110      | 1.0      | -               |
| 33000                       | 31500                      | 5000           | -    | 6000    | 96                                  | 119      | 1.0      | 0.540           |
| 33000                       | 31500                      | 5000           | -    | 6000    | 96                                  | 119      | 1.0      | -               |
| 41500                       | 39500                      | 4800           | -    | 5600    | 99                                  | 131      | 1.0      | 0.848           |
| 58000                       | 49500                      | 4700           | -    | 5600    | 97                                  | 133      | 1.5      | 1.17            |
| 96000                       | 71500                      | 3900           | 2600 | 4600    | 100                                 | 150      | 2.0      | 2.15            |
| 143000                      | 107000                     | 3400           | 2400 | 4000    | 104                                 | 176      | 2.5      | 4.91            |







## DEEP GROOVE BALL BEARING

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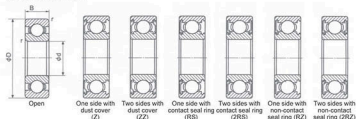
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

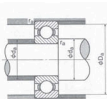
Bore diameter d: 95~110mm



| Principal dimensions (mm) |    |     | Designation |             |                   |                       |         |           |
|---------------------------|----|-----|-------------|-------------|-------------------|-----------------------|---------|-----------|
| d                         | B  | r   | Open        | Shield ring | Contact seal ring | Non-contact seal ring |         |           |
| 120                       | 13 | 1   | 61819       | 61819Z      | 61819RS           | 61819-2RS             | 61819RZ | 61819-2RZ |
| 120                       | 16 | 1   | 62819       | 62819Z      | 62819RS           | 62819-2RS             | 62819RZ | 62819-2RZ |
| 130                       | 18 | 1.1 | 61919       | 61919Z      | 61919RS           | 61919-2RS             | 61919RZ | 61919-2RZ |
| 130                       | 22 | 1.1 | 62919       | 62919Z      | 62919RS           | 62919-2RS             | 62919RZ | 62919-2RZ |
| 145                       | 16 | 1   | 60019       | 60019Z      | 60019RS           | 60019-2RS             | 60019RZ | 60019-2RZ |
| 145                       | 24 | 1.5 | 60119       | 60119Z      | 60119RS           | 60119-2RS             | 60119RZ | 60119-2RZ |
| 170                       | 32 | 2.1 | 62119       | 62119Z      | 62119RS           | 62119-2RS             | 62119RZ | 62119-2RZ |
| 200                       | 45 | 3   | 63119       | 63119Z      | 63119RS           | 63119-2RS             | 63119RZ | 63119-2RZ |
| 125                       | 13 | 1   | 61820       | 61820Z      | 61820RS           | 61820-2RS             | 61820RZ | 61820-2RZ |
| 125                       | 16 | 1   | 62820       | 62820Z      | 62820RS           | 62820-2RS             | 62820RZ | 62820-2RZ |
| 140                       | 20 | 1.1 | 61920       | 61920Z      | 61920RS           | 61920-2RS             | 61920RZ | 61920-2RZ |
| 140                       | 24 | 1.1 | 62920       | 62920Z      | 62920RS           | 62920-2RS             | 62920RZ | 62920-2RZ |
| 150                       | 16 | 1   | 60020       | 60020Z      | 60020RS           | 60020-2RS             | 60020RZ | 60020-2RZ |
| 150                       | 24 | 1.5 | 60202       | 60202Z      | 60202RS           | 60202-2RS             | 60202RZ | 60202-2RZ |
| 180                       | 34 | 2.1 | 62202       | 62202Z      | 62202RS           | 62202-2RS             | 62202RZ | 62202-2RZ |
| 215                       | 47 | 3   | 63202       | 63202Z      | 63202RS           | 63202-2RS             | 63202RZ | 63202-2RZ |
| 130                       | 13 | 1   | 61821       | 61821Z      | 61821RS           | 61821-2RS             | 61821RZ | 61821-2RZ |
| 130                       | 16 | 1   | 62821       | 62821Z      | 62821RS           | 62821-2RS             | 62821RZ | 62821-2RZ |
| 145                       | 20 | 1.1 | 61921       | 61921Z      | 61921RS           | 61921-2RS             | 61921RZ | 61921-2RZ |
| 145                       | 24 | 1.1 | 62921       | 62921Z      | 62921RS           | 62921-2RS             | 62921RZ | 62921-2RZ |
| 160                       | 18 | 1   | 60021       | 60021Z      | 60021RS           | 60021-2RS             | 60021RZ | 60021-2RZ |
| 160                       | 26 | 2   | 60212       | 60212Z      | 60212RS           | 60212-2RS             | 60212RZ | 60212-2RZ |
| 190                       | 35 | 2.1 | 62212       | 62212Z      | 62212RS           | 62212-2RS             | 62212RZ | 62212-2RZ |
| 225                       | 49 | 3   | 63212       | 63212Z      | 63212RS           | 63212-2RS             | 63212RZ | 63212-2RZ |
| 140                       | 16 | 1   | 61822       | 61822Z      | 61822RS           | 61822-2RS             | 61822RZ | 61822-2RZ |
| 140                       | 19 | 1   | 62822       | 62822Z      | 62822RS           | 62822-2RS             | 62822RZ | 62822-2RZ |
| 150                       | 20 | 1.1 | 61922       | 61922Z      | 61922RS           | 61922-2RS             | 61922RZ | 61922-2RZ |
| 150                       | 24 | 1.1 | 62922       | 62922Z      | 62922RS           | 62922-2RS             | 62922RZ | 62922-2RZ |
| 170                       | 19 | 1   | 60022       | 60022Z      | 60022RS           | 60022-2RS             | 60022RZ | 60022-2RZ |
| 170                       | 26 | 2   | 60222       | 60222Z      | 60222RS           | 60222-2RS             | 60222RZ | 60222-2RZ |
| 200                       | 35 | 2.1 | 62222       | 62222Z      | 62222RS           | 62222-2RS             | 62222RZ | 62222-2RZ |
| 240                       | 50 | 3   | 63222       | 63222Z      | 63222RS           | 63222-2RS             | 63222RZ | 63222-2RZ |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



| Basic load rating           |                            | Limiting speed              |                     | Abutment and fillet Dimensions (mm) |          |          | Ref. Weight (g) |
|-----------------------------|----------------------------|-----------------------------|---------------------|-------------------------------------|----------|----------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease Open, Z, ZZ, RZ, 2RZ | Oil RS, 2RS Open, Z | Da (mm)                             | Da (max) | ra (max) |                 |
| 19300                       | 20500                      | 5000                        | -                   | 6000                                | 100      | 115      | 1.0             |
| 19300                       | 20500                      | 5000                        | -                   | 6000                                | 100      | 115      | 1.0             |
| 33500                       | 33500                      | 4700                        | -                   | 5500                                | 101      | 124      | 1.0             |
| 33500                       | 33500                      | 4700                        | -                   | 5500                                | 101      | 124      | 1.0             |
| 41000                       | 39500                      | 4600                        | -                   | 5300                                | 104      | 136      | 1.0             |
| 60500                       | 54000                      | 4500                        | -                   | 5300                                | 102      | 138      | 1.5             |
| 109000                      | 81500                      | 3700                        | 2400                | 4300                                | 107      | 158      | 2.0             |
| 153000                      | 118000                     | 3200                        | 2200                | 3800                                | 109      | 186      | 2.5             |
| 19600                       | 21200                      | 4600                        | -                   | 5500                                | 105      | 120      | 1.0             |
| 19600                       | 21200                      | 4600                        | -                   | 5500                                | 105      | 120      | 1.0             |
| 37000                       | 36500                      | 4400                        | -                   | 5300                                | 106      | 134      | 1.0             |
| 37000                       | 36500                      | 4400                        | -                   | 5300                                | 106      | 134      | 1.0             |
| 37500                       | 39500                      | 4300                        | -                   | 5000                                | 109      | 141      | 1.0             |
| 60000                       | 54000                      | 4200                        | -                   | 5000                                | 107      | 143      | 2.0             |
| 122000                      | 93000                      | 3500                        | 2300                | 4100                                | 112      | 168      | 2.0             |
| 173000                      | 141000                     | 3000                        | 2100                | 3600                                | 114      | 201      | 2.5             |
| 19900                       | 21900                      | 4500                        | -                   | 5500                                | 110      | 125      | 1.0             |
| 19900                       | 21900                      | 4500                        | -                   | 5500                                | 110      | 125      | 1.0             |
| 42500                       | 42000                      | 4200                        | -                   | 5100                                | 111      | 139      | 1.0             |
| 42500                       | 42000                      | 4200                        | -                   | 5100                                | 111      | 139      | 1.0             |
| 37500                       | 50500                      | 4000                        | -                   | 4800                                | 114      | 151      | 1.0             |
| 72500                       | 65500                      | 4000                        | -                   | 4800                                | 113      | 152      | 2.0             |
| 133000                      | 104000                     | 3200                        | -                   | 3600                                | 117      | 178      | 2.0             |
| 184000                      | 153000                     | 2800                        | -                   | 3400                                | 119      | 211      | 2.5             |
| 27300                       | 29400                      | 4200                        | -                   | 5100                                | 115      | 135      | 1.0             |
| 27300                       | 29400                      | 4200                        | -                   | 5100                                | 115      | 135      | 1.0             |
| 38000                       | 38500                      | 4000                        | -                   | 5000                                | 116      | 144      | 1.0             |
| 38000                       | 38500                      | 4000                        | -                   | 5000                                | 116      | 144      | 1.0             |
| 44000                       | 45000                      | 3800                        | -                   | 4500                                | 119      | 161      | 1.0             |
| 84500                       | 73000                      | 3800                        | -                   | 4500                                | 118      | 162      | 2.0             |
| 144000                      | 117000                     | 3000                        | -                   | 3700                                | 122      | 188      | 2.0             |
| 205000                      | 179000                     | 2600                        | -                   | 3200                                | 124      | 226      | 2.5             |





## DEEP GROOVE BALL BEARING

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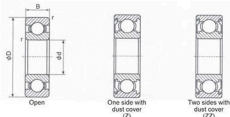
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

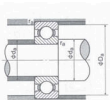
Bore diameter d: 120-150mm



| Principal dimensions (mm) |    | Designation |       |             |                   |                       |         |
|---------------------------|----|-------------|-------|-------------|-------------------|-----------------------|---------|
| d                         | B  | r           | Open  | Shield ring | Contact seal ring | Non-contact seal ring |         |
| 150                       | 16 | 1           | 61824 | 61824Z      | 61824ZZ           | 61824RS               | 61824RZ |
| 150                       | 19 | 1           | 62824 | 62824Z      | 62824ZZ           | 62824RS               | 62824RZ |
| 165                       | 22 | 1.1         | 61924 | 61924Z      | 61924ZZ           | 61924RS               | 61924RZ |
| 165                       | 27 | 1.1         | 62924 | 62924Z      | 62924ZZ           | 62924RS               | 62924RZ |
| 180                       | 19 | 1           | 6024  | 6024Z       | 6024ZZ            | 6024RS                | 6024RZ  |
| 180                       | 28 | 2           | 6024  | 6024Z       | 6024ZZ            | 6024RS                | 6024RZ  |
| 215                       | 40 | 2.1         | 6224  | 6224Z       | 6224ZZ            | 6224RS                | 6224RZ  |
| 200                       | 55 | 3           | 6324  | 6324Z       | 6324ZZ            | 6324RS                | 6324RZ  |
| 165                       | 18 | 1.1         | 61826 | 61826Z      | 61826ZZ           | 61826RS               | 61826RZ |
| 165                       | 22 | 1.1         | 62826 | 62826Z      | 62826ZZ           | 62826RS               | 62826RZ |
| 180                       | 24 | 1.5         | 61926 | 61926Z      | 61926ZZ           | 61926RS               | 61926RZ |
| 180                       | 30 | 1.5         | 62926 | 62926Z      | 62926ZZ           | 62926RS               | 62926RZ |
| 200                       | 22 | 1.1         | 6026  | 6026Z       | 6026ZZ            | 6026RS                | 6026RZ  |
| 200                       | 33 | 2           | 6026  | 6026Z       | 6026ZZ            | 6026RS                | 6026RZ  |
| 230                       | 40 | 3           | 6226  | 6226Z       | 6226ZZ            | 6226RS                | 6226RZ  |
| 280                       | 58 | 4           | 6326  | 6326Z       | 6326ZZ            | 6326RS                | 6326RZ  |
| 175                       | 18 | 1.1         | 61828 | 61828Z      | 61828ZZ           | 61828RS               | 61828RZ |
| 175                       | 22 | 1.1         | 62828 | 62828Z      | 62828ZZ           | 62828RS               | 62828RZ |
| 190                       | 24 | 1.5         | 61928 | 61928Z      | 61928ZZ           | 61928RS               | 61928RZ |
| 190                       | 30 | 1.5         | 62928 | 62928Z      | 62928ZZ           | 62928RS               | 62928RZ |
| 210                       | 22 | 1.1         | 6028  | 6028Z       | 6028ZZ            | 6028RS                | 6028RZ  |
| 210                       | 33 | 2           | 6028  | 6028Z       | 6028ZZ            | 6028RS                | 6028RZ  |
| 250                       | 42 | 3           | 6228  | 6228Z       | 6228ZZ            | 6228RS                | 6228RZ  |
| 300                       | 62 | 4           | 6328  | 6328Z       | 6328ZZ            | 6328RS                | 6328RZ  |
| 190                       | 20 | 1.1         | 61830 | 61830Z      | 61830ZZ           | 61830RS               | 61830RZ |
| 190                       | 24 | 1.1         | 62830 | 62830Z      | 62830ZZ           | 62830RS               | 62830RZ |
| 210                       | 28 | 2           | 61930 | 61930Z      | 61930ZZ           | 61930RS               | 61930RZ |
| 210                       | 36 | 2           | 62930 | 62930Z      | 62930ZZ           | 62930RS               | 62930RZ |
| 225                       | 24 | 1.1         | 6030  | 6030Z       | 6030ZZ            | 6030RS                | 6030RZ  |
| 225                       | 35 | 2.1         | 6030  | 6030Z       | 6030ZZ            | 6030RS                | 6030RZ  |
| 270                       | 45 | 3           | 6230  | 6230Z       | 6230ZZ            | 6230RS                | 6230RZ  |
| 320                       | 65 | 4           | 6330  | 6330Z       | 6330ZZ            | 6330RS                | 6330RZ  |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



| Basic load rating           |                            | Limiting speed |     | Abutment and fillet Dimensions (mm) |          |          | Ref. Weight (g) |
|-----------------------------|----------------------------|----------------|-----|-------------------------------------|----------|----------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease         | Oil | Da (mm)                             | Da (max) | ra (max) |                 |
| 28300                       | 31500                      | 4000           | -   | 4800                                | 125      | 145      | 1.0             |
| 28300                       | 31500                      | 4000           | -   | 4800                                | 125      | 145      | 1.0             |
| 53000                       | 54000                      | 3700           | -   | 4600                                | 126      | 159      | 1.0             |
| 53000                       | 54000                      | 3700           | -   | 4600                                | 126      | 159      | 1.0             |
| 48000                       | 50000                      | 3500           | -   | 4200                                | 129      | 171      | 1.0             |
| 88000                       | 79500                      | 3500           | -   | 4200                                | 128      | 172      | 2.0             |
| 145000                      | 118000                     | 2800           | -   | 3400                                | 132      | 203      | 2.0             |
| 207000                      | 185000                     | 2400           | -   | 3400                                | 134      | 246      | 2.5             |
| 37000                       | 41000                      | 3600           | -   | 4400                                | 136      | 158      | 1.0             |
| 37000                       | 41000                      | 3600           | -   | 4400                                | 136      | 158      | 1.0             |
| 65000                       | 67000                      | 3400           | -   | 4200                                | 137      | 173      | 1.5             |
| 65000                       | 67000                      | 3400           | -   | 4200                                | 137      | 173      | 1.5             |
| 55000                       | 59500                      | 3200           | -   | 3600                                | 144      | 186      | 1.0             |
| 106000                      | 101000                     | 3200           | -   | 3600                                | 138      | 192      | 2.0             |
| 167000                      | 146000                     | 2600           | -   | 3200                                | 144      | 216      | 2.5             |
| 229000                      | 214000                     | 2200           | -   | 2800                                | 148      | 262      | 3.0             |
| 38000                       | 44500                      | 3400           | -   | 4000                                | 146      | 169      | 1.0             |
| 38000                       | 44500                      | 3400           | -   | 4000                                | 146      | 169      | 1.0             |
| 66500                       | 71000                      | 3200           | -   | 3800                                | 147      | 183      | 1.5             |
| 66500                       | 71000                      | 3200           | -   | 3800                                | 147      | 183      | 1.5             |
| 55000                       | 62000                      | 3000           | -   | 3500                                | 154      | 196      | 1.0             |
| 110000                      | 109000                     | 3000           | -   | 3600                                | 148      | 202      | 2.0             |
| 166000                      | 150000                     | 2400           | -   | 2900                                | 154      | 236      | 2.5             |
| 253000                      | 246000                     | 2100           | -   | 2600                                | 156      | 282      | 3.0             |
| 47500                       | 54500                      | 3100           | -   | 3500                                | 156      | 184      | 1.0             |
| 47500                       | 54500                      | 3100           | -   | 3500                                | 156      | 184      | 1.0             |
| 85500                       | 87000                      | 2800           | -   | 3100                                | 158      | 202      | 2.0             |
| 85500                       | 87000                      | 2800           | -   | 3100                                | 158      | 202      | 2.0             |
| 76500                       | 82500                      | 2600           | -   | 3200                                | 164      | 211      | 1.0             |
| 126000                      | 126000                     | 2600           | -   | 3200                                | 159      | 216      | 2.0             |
| 176000                      | 169000                     | 2200           | -   | 2600                                | 164      | 256      | 2.5             |
| 274000                      | 284000                     | 2000           | -   | 2400                                | 168      | 302      | 3.0             |





## DEEP GROOVE BALL BEARING

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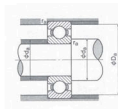
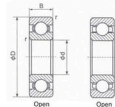
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

Bore diameter d: 100-200mm



| Principal dimensions (mm) |     |     | Designation |        |             |                   |                       |           |           |           |
|---------------------------|-----|-----|-------------|--------|-------------|-------------------|-----------------------|-----------|-----------|-----------|
| d                         | D   | B   | r (min)     | Open   | Shield ring | Contact seal ring | Non-contact seal ring |           |           |           |
| 200                       | 20  | 1.1 | 61832       | 61832Z | 61832ZZ     | 61832RS           | 61832RZ               | 61832-2RS | 61832-2RZ |           |
| 200                       | 24  | 1.1 | 62832       | 62832Z | 62832ZZ     | 62832RS           | 62832RZ               | 62832-2RS | 62832-2RZ |           |
| 220                       | 28  | 2   | 61932       | 61932Z | 61932ZZ     | 61932RS           | 61932RZ               | 61932-2RS | 61932-2RZ |           |
| 160                       | 220 | 36  | 2           | 62932  | 62932Z      | 62932ZZ           | 62932RS               | 62932RZ   | 62932-2RS | 62932-2RZ |
| 240                       | 38  | 2.1 | 6032        | 6032Z  | 6032ZZ      | 6032RS            | 6032RZ                | 6032-2RS  | 6032-2RZ  |           |
| 290                       | 48  | 3   | 6232        | 6232Z  | 6232ZZ      | 6232RS            | 6232RZ                | 6232-2RS  | 6232-2RZ  |           |
| 340                       | 58  | 4   | 6332        | 6332Z  | 6332ZZ      | 6332RS            | 6332RZ                | 6332-2RS  | 6332-2RZ  |           |
| 215                       | 22  | 1.1 | 61834       | 61834Z | 61834ZZ     | 61834RS           | 61834RZ               | 61834-2RS | 61834-2RZ |           |
| 215                       | 27  | 1.1 | 62834       | 62834Z | 62834ZZ     | 62834RS           | 62834RZ               | 62834-2RS | 62834-2RZ |           |
| 230                       | 28  | 2   | 61934       | 61934Z | 61934ZZ     | 61934RS           | 61934RZ               | 61934-2RS | 61934-2RZ |           |
| 170                       | 230 | 36  | 2           | 62934  | 62934Z      | 62934ZZ           | 62934RS               | 62934RZ   | 62934-2RS | 62934-2RZ |
| 290                       | 42  | 2.1 | 6034        | 6034Z  | 6034ZZ      | 6034RS            | 6034RZ                | 6034-2RS  | 6034-2RZ  |           |
| 310                       | 52  | 4   | 6234        | 6234Z  | 6234ZZ      | 6234RS            | 6234RZ                | 6234-2RS  | 6234-2RZ  |           |
| 360                       | 72  | 4   | 6334        | 6334Z  | 6334ZZ      | 6334RS            | 6334RZ                | 6334-2RS  | 6334-2RZ  |           |
| 225                       | 22  | 1.1 | 61836       | 61836Z | 61836ZZ     | 61836RS           | 61836RZ               | 61836-2RS | 61836-2RZ |           |
| 225                       | 27  | 1.1 | 62836       | 62836Z | 62836ZZ     | 62836RS           | 62836RZ               | 62836-2RS | 62836-2RZ |           |
| 250                       | 33  | 2   | 61936       | 61936Z | 61936ZZ     | 61936RS           | 61936RZ               | 61936-2RS | 61936-2RZ |           |
| 180                       | 250 | 42  | 2           | 62936  | 62936Z      | 62936ZZ           | 62936RS               | 62936RZ   | 62936-2RS | 62936-2RZ |
| 320                       | 46  | 2.1 | 6036        | 6036Z  | 6036ZZ      | 6036RS            | 6036RZ                | 6036-2RS  | 6036-2RZ  |           |
| 380                       | 52  | 4   | 6236        | 6236Z  | 6236ZZ      | 6236RS            | 6236RZ                | 6236-2RS  | 6236-2RZ  |           |
| 430                       | 75  | 4   | 6336        | 6336Z  | 6336ZZ      | 6336RS            | 6336RZ                | 6336-2RS  | 6336-2RZ  |           |
| 240                       | 24  | 1.5 | 61838       | 61838Z | 61838ZZ     | 61838RS           | 61838RZ               | 61838-2RS | 61838-2RZ |           |
| 240                       | 30  | 1.5 | 62838       | 62838Z | 62838ZZ     | 62838RS           | 62838RZ               | 62838-2RS | 62838-2RZ |           |
| 290                       | 33  | 2   | 61938       | 61938Z | 61938ZZ     | 61938RS           | 61938RZ               | 61938-2RS | 61938-2RZ |           |
| 190                       | 290 | 42  | 2           | 62938  | 62938Z      | 62938ZZ           | 62938RS               | 62938RZ   | 62938-2RS | 62938-2RZ |
| 340                       | 46  | 2.1 | 6038        | 6038Z  | 6038ZZ      | 6038RS            | 6038RZ                | 6038-2RS  | 6038-2RZ  |           |
| 390                       | 55  | 4   | 6238        | 6238Z  | 6238ZZ      | 6238RS            | 6238RZ                | 6238-2RS  | 6238-2RZ  |           |
| 440                       | 78  | 5   | 6338        | 6338Z  | 6338ZZ      | 6338RS            | 6338RZ                | 6338-2RS  | 6338-2RZ  |           |
| 250                       | 24  | 1.5 | 61840       | 61840Z | 61840ZZ     | 61840RS           | 61840RZ               | 61840-2RS | 61840-2RZ |           |
| 250                       | 30  | 1.5 | 62840       | 62840Z | 62840ZZ     | 62840RS           | 62840RZ               | 62840-2RS | 62840-2RZ |           |
| 280                       | 38  | 2.1 | 61940       | 61940Z | 61940ZZ     | 61940RS           | 61940RZ               | 61940-2RS | 61940-2RZ |           |
| 200                       | 280 | 48  | 2.1         | 62940  | 62940Z      | 62940ZZ           | 62940RS               | 62940RZ   | 62940-2RS | 62940-2RZ |
| 310                       | 51  | 2.1 | 6040        | 6040Z  | 6040ZZ      | 6040RS            | 6040RZ                | 6040-2RS  | 6040-2RZ  |           |
| 360                       | 58  | 4   | 6240        | 6240Z  | 6240ZZ      | 6240RS            | 6240RZ                | 6240-2RS  | 6240-2RZ  |           |
| 420                       | 80  | 5   | 6340        | 6340Z  | 6340ZZ      | 6340RS            | 6340RZ                | 6340-2RS  | 6340-2RZ  |           |

| Basic load rating |               | Limiting speed                  |                | Abutment and fillet Dimensions (mm) |          |          | Ref. Weight (g) |
|-------------------|---------------|---------------------------------|----------------|-------------------------------------|----------|----------|-----------------|
| Dynamic Cr(N)     | Static Cor(N) | Grease<br>Open, Z, ZZ, 2RS, 2RZ | Oil<br>Open, Z | Da (mm)                             | Da (max) | ra (max) |                 |
| 48500             | 56500         | 2800                            | -              | 3100                                | 166      | 194      | 1.30            |
| 48500             | 56500         | 2800                            | -              | 3100                                | 166      | 194      | 1.0             |
| 87500             | 95500         | 2600                            | -              | 2900                                | 168      | 212      | 3.01            |
| 87500             | 95500         | 2600                            | -              | 2900                                | 168      | 212      | 2.0             |
| 137000            | 136000        | 2400                            | -              | 3000                                | 169      | 231      | 5.89            |
| 185000            | 186000        | 2000                            | -              | 2400                                | 174      | 276      | 14.3            |
| 278000            | 287000        | 1800                            | -              | 2000                                | 178      | 322      | 28.6            |
| 60000             | 70500         | 2600                            | -              | 3000                                | 177      | 208      | 1.85            |
| 60000             | 70500         | 2600                            | -              | 3000                                | 177      | 208      | 1.0             |
| 86000             | 95000         | 2400                            | -              | 2800                                | 178      | 222      | 3.17            |
| 86000             | 95000         | 2400                            | -              | 2800                                | 178      | 222      | 2.0             |
| 161000            | 160000        | 2200                            | -              | 2800                                | 179      | 251      | 7.92            |
| 212000            | 224000        | 1900                            | -              | 2300                                | 188      | 292      | 17.5            |
| 325000            | 360000        | 1600                            | -              | 1900                                | 188      | 342      | 34.0            |
| 60500             | 73000         | 2400                            | -              | 2900                                | 187      | 218      | 2.02            |
| 60500             | 73000         | 2400                            | -              | 2900                                | 187      | 218      | 1.0             |
| 106000            | 117000        | 2200                            | -              | 2600                                | 188      | 242      | 4.68            |
| 106000            | 117000        | 2200                            | -              | 2600                                | 188      | 242      | 2.0             |
| 174000            | 180000        | 2100                            | -              | 2600                                | 189      | 271      | 10.3            |
| 227000            | 242000        | 1900                            | -              | 2200                                | 198      | 302      | 18.3            |
| 325000            | 360000        | 1500                            | -              | 1900                                | 198      | 362      | 41.9            |
| 73000             | 88000         | 2200                            | -              | 2600                                | 198      | 232      | 1.5             |
| 73000             | 88000         | 2200                            | -              | 2600                                | 198      | 232      | 1.5             |
| 108000            | 123000        | 2100                            | -              | 2500                                | 198      | 252      | 4.90            |
| 108000            | 123000        | 2100                            | -              | 2500                                | 198      | 252      | 2.0             |
| 188000            | 200000        | 2000                            | -              | 2500                                | 199      | 281      | 10.8            |
| 255000            | 282000        | 1700                            | -              | 2000                                | 208      | 322      | 30.0            |
| 355000            | 415000        | 1500                            | -              | 1800                                | 212      | 378      | 48.2            |
| 74000             | 91000         | 2100                            | -              | 2500                                | 208      | 242      | 1.5             |
| 74000             | 91000         | 2100                            | -              | 2500                                | 208      | 242      | 1.5             |
| 130000            | 146000        | 2000                            | -              | 2500                                | 209      | 271      | 6.88            |
| 130000            | 146000        | 2000                            | -              | 2500                                | 209      | 271      | 2.0             |
| 202000            | 222000        | 1900                            | -              | 2400                                | 209      | 301      | 13.9            |
| 268000            | 310000        | 1600                            | -              | 1900                                | 218      | 342      | 28.2            |
| 380000            | 445000        | 1300                            | -              | 1700                                | 222      | 398      | 54.6            |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



## DEEP GROOVE BALL BEARING

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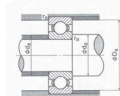
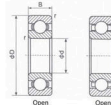
## DEEP GROOVE BALL BEARING

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## Deep groove ball bearing

Bore diameter d: 220-320mm



| Principal dimensions (mm) |    | Designation |       |             |                   |                       |           |         |           |
|---------------------------|----|-------------|-------|-------------|-------------------|-----------------------|-----------|---------|-----------|
| d                         | B  | r           | Open  | Shield ring | Contact seal ring | Non-contact seal ring |           |         |           |
| 270                       | 24 | 1.5         | 61844 | 61844Z      | 61844ZZ           | 61844RS               | 61844-2RS | 61844RZ | 61844-2RZ |
| 270                       | 30 | 1.5         | 62844 | 62844Z      | 62844ZZ           | 62844RS               | 62844-2RS | 62844RZ | 62844-2RZ |
| 300                       | 38 | 2.1         | 61944 | 61944Z      | 61944ZZ           | 61944RS               | 61944-2RS | 61944RZ | 61944-2RZ |
| 300                       | 48 | 2.1         | 62944 | 62944Z      | 62944ZZ           | 62944RS               | 62944-2RS | 62944RZ | 62944-2RZ |
| 340                       | 56 | 3           | 6044Z | 6044Z       | 6044ZZ            | 6044RS                | 6044-2RS  | 6044RZ  | 6044-2RZ  |
| 400                       | 65 | 4           | 6244Z | 6244Z       | 6244ZZ            | 6244RS                | 6244-2RS  | 6244RZ  | 6244-2RZ  |
| 300                       | 28 | 2           | 61848 | 61848Z      | 61848ZZ           | 61848RS               | 61848-2RS | 61848RZ | 61848-2RZ |
| 300                       | 36 | 2           | 62848 | 62848Z      | 62848ZZ           | 62848RS               | 62848-2RS | 62848RZ | 62848-2RZ |
| 320                       | 38 | 2.1         | 61948 | 61948Z      | 61948ZZ           | 61948RS               | 61948-2RS | 61948RZ | 61948-2RZ |
| 320                       | 48 | 2.1         | 62948 | 62948Z      | 62948ZZ           | 62948RS               | 62948-2RS | 62948RZ | 62948-2RZ |
| 360                       | 56 | 3           | 6048Z | 6048Z       | 6048ZZ            | 6048RS                | 6048-2RS  | 6048RZ  | 6048-2RZ  |
| 440                       | 72 | 4           | 6248Z | 6248Z       | 6248ZZ            | 6248RS                | 6248-2RS  | 6248RZ  | 6248-2RZ  |
| 320                       | 28 | 2           | 61852 | 61852Z      | 61852ZZ           | 61852RS               | 61852-2RS | 61852RZ | 61852-2RZ |
| 320                       | 36 | 2           | 62852 | 62852Z      | 62852ZZ           | 62852RS               | 62852-2RS | 62852RZ | 62852-2RZ |
| 360                       | 46 | 2.1         | 61952 | 61952Z      | 61952ZZ           | 61952RS               | 61952-2RS | 61952RZ | 61952-2RZ |
| 360                       | 60 | 2.1         | 62952 | 62952Z      | 62952ZZ           | 62952RS               | 62952-2RS | 62952RZ | 62952-2RZ |
| 400                       | 65 | 4           | 6052Z | 6052Z       | 6052ZZ            | 6052RS                | 6052-2RS  | 6052RZ  | 6052-2RZ  |
| 480                       | 80 | 5           | 6252Z | 6252Z       | 6252ZZ            | 6252RS                | 6252-2RS  | 6252RZ  | 6252-2RZ  |
| 350                       | 33 | 2           | 61856 | 61856Z      | 61856ZZ           | 61856RS               | 61856-2RS | 61856RZ | 61856-2RZ |
| 350                       | 42 | 2           | 62856 | 62856Z      | 62856ZZ           | 62856RS               | 62856-2RS | 62856RZ | 62856-2RZ |
| 380                       | 46 | 2.1         | 61956 | 61956Z      | 61956ZZ           | 61956RS               | 61956-2RS | 61956RZ | 61956-2RZ |
| 380                       | 60 | 2.1         | 62956 | 62956Z      | 62956ZZ           | 62956RS               | 62956-2RS | 62956RZ | 62956-2RZ |
| 420                       | 65 | 4           | 6056Z | 6056Z       | 6056ZZ            | 6056RS                | 6056-2RS  | 6056RZ  | 6056-2RZ  |
| 500                       | 80 | 5           | 6256Z | 6256Z       | 6256ZZ            | 6256RS                | 6256-2RS  | 6256RZ  | 6256-2RZ  |
| 380                       | 38 | 2.1         | 61860 | 61860Z      | 61860ZZ           | 61860RS               | 61860-2RS | 61860RZ | 61860-2RZ |
| 380                       | 48 | 2.1         | 62860 | 62860Z      | 62860ZZ           | 62860RS               | 62860-2RS | 62860RZ | 62860-2RZ |
| 420                       | 56 | 3           | 61960 | 61960Z      | 61960ZZ           | 61960RS               | 61960-2RS | 61960RZ | 61960-2RZ |
| 420                       | 72 | 3           | 62960 | 62960Z      | 62960ZZ           | 62960RS               | 62960-2RS | 62960RZ | 62960-2RZ |
| 460                       | 74 | 4           | 6060Z | 6060Z       | 6060ZZ            | 6060RS                | 6060-2RS  | 6060RZ  | 6060-2RZ  |
| 540                       | 85 | 5           | 6260Z | 6260Z       | 6260ZZ            | 6260RS                | 6260-2RS  | 6260RZ  | 6260-2RZ  |
| 400                       | 38 | 2.1         | 61864 | 61864Z      | 61864ZZ           | 61864RS               | 61864-2RS | 61864RZ | 61864-2RZ |
| 400                       | 48 | 2.1         | 62864 | 62864Z      | 62864ZZ           | 62864RS               | 62864-2RS | 62864RZ | 62864-2RZ |
| 440                       | 56 | 3           | 61964 | 61964Z      | 61964ZZ           | 61964RS               | 61964-2RS | 61964RZ | 61964-2RZ |
| 440                       | 72 | 3           | 62964 | 62964Z      | 62964ZZ           | 62964RS               | 62964-2RS | 62964RZ | 62964-2RZ |
| 480                       | 74 | 4           | 6064Z | 6064Z       | 6064ZZ            | 6064RS                | 6064-2RS  | 6064RZ  | 6064-2RZ  |

| Basic load rating           |                            | Limiting speed       |         |         | Abutment and fillet Dimensions (mm) |          |     | Ref. Weight (g) |
|-----------------------------|----------------------------|----------------------|---------|---------|-------------------------------------|----------|-----|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease               | Oil     | Da (mm) | Da (max)                            | ra (max) |     |                 |
|                             |                            | Open, Z, ZZ, RZ, 2RZ | Open, Z |         |                                     |          |     |                 |
| 76500                       | 98000                      | 1900                 | -       | 2400    | 228                                 | 262      | 1.5 | 2.98            |
| 76500                       | 98000                      | 1900                 | -       | 2400    | 228                                 | 262      | 1.5 | -               |
| 132000                      | 154000                     | 1800                 | -       | 2300    | 229                                 | 291      | 2.0 | 7.45            |
| 132000                      | 154000                     | 1800                 | -       | 2300    | 229                                 | 291      | 2.0 | -               |
| 214000                      | 248000                     | 1700                 | -       | 2200    | 230                                 | 330      | 2.5 | 18.4            |
| 310000                      | 375000                     | 1400                 | -       | 1700    | 238                                 | 382      | 3.0 | 37.0            |
| 98500                       | 127000                     | 1800                 | -       | 2100    | 250                                 | 291      | 2.0 | 4.60            |
| 98500                       | 127000                     | 1800                 | -       | 2100    | 250                                 | 291      | 2.0 | -               |
| 154000                      | 186000                     | 1700                 | -       | 2000    | 249                                 | 311      | 2.0 | 8.02            |
| 154000                      | 186000                     | 1700                 | -       | 2000    | 249                                 | 311      | 2.0 | -               |
| 222000                      | 268000                     | 1600                 | -       | 1900    | 250                                 | 350      | 2.5 | 19.6            |
| 340000                      | 430000                     | 1200                 | -       | 1500    | 258                                 | 322      | 3.0 | 49.9            |
| 101000                      | 136000                     | 1600                 | -       | 2000    | 269                                 | 311      | 2.0 | 4.95            |
| 101000                      | 136000                     | 1600                 | -       | 2000    | 269                                 | 311      | 2.0 | -               |
| 204000                      | 254000                     | 1500                 | -       | 1800    | 269                                 | 351      | 2.0 | 13.4            |
| 204000                      | 254000                     | 1500                 | -       | 1800    | 269                                 | 351      | 2.0 | -               |
| 252000                      | 320000                     | 1400                 | -       | 1700    | 272                                 | 388      | 3.0 | 29.3            |
| 400000                      | 540000                     | 1100                 | -       | 1400    | 282                                 | 458      | 4.0 | 67.5            |
| 133000                      | 177000                     | 1500                 | -       | 1800    | 290                                 | 341      | 2.0 | 7.35            |
| 133000                      | 177000                     | 1500                 | -       | 1800    | 290                                 | 341      | 2.0 | -               |
| 209000                      | 270000                     | 1400                 | -       | 1700    | 289                                 | 371      | 2.0 | 14.3            |
| 209000                      | 270000                     | 1400                 | -       | 1700    | 289                                 | 371      | 2.0 | -               |
| 268000                      | 350000                     | 1300                 | -       | 1600    | 293                                 | 405      | 3.0 | 31.0            |
| 400000                      | 550000                     | 950                  | -       | 1200    | 302                                 | 478      | 4.0 | 71.0            |
| 166000                      | 219000                     | 1400                 | -       | 1600    | 311                                 | 369      | 2.0 | 10.4            |
| 166000                      | 219000                     | 1400                 | -       | 1600    | 311                                 | 369      | 2.0 | -               |
| 269000                      | 370000                     | 1300                 | -       | 1500    | 311                                 | 409      | 2.5 | 22.8            |
| 269000                      | 370000                     | 1300                 | -       | 1500    | 311                                 | 409      | 2.5 | -               |
| 355000                      | 490000                     | 1200                 | -       | 1500    | 313                                 | 447      | 3.0 | 43.8            |
| 465000                      | 670000                     | 850                  | -       | 1100    | 322                                 | 518      | 4.0 | 88.6            |
| 164000                      | 218000                     | 1300                 | -       | 1500    | 330                                 | 389      | 2.0 | 10.9            |
| 164000                      | 218000                     | 1300                 | -       | 1500    | 330                                 | 389      | 2.0 | -               |
| 266000                      | 370000                     | 1200                 | -       | 1300    | 331                                 | 429      | 2.5 | 24.1            |
| 266000                      | 370000                     | 1200                 | -       | 1300    | 331                                 | 429      | 2.5 | -               |
| 340000                      | 470000                     | 1100                 | -       | 1300    | 333                                 | 467      | 3.0 | 46.1            |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.



## DEEP GROOVE BALL BEARING

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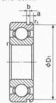


## DEEP GROOVE BALL BEARING

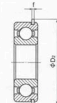
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Deep groove ball bearing with snap groove / snap ring and shield

Bore diameter  $\phi$  10-30mm

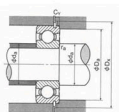
With snap groove (ZZ)



With snap groove (2NR)



With dust cover and snap ring (2NR)



| Principal dimensions (mm) |    |    |         | Dimension of snap groove and snap ring |                      |         |         | Designation          |         |         |
|---------------------------|----|----|---------|----------------------------------------|----------------------|---------|---------|----------------------|---------|---------|
| d                         | D  | B  | f (min) | r <sub>1</sub> (min)                   | D <sub>1</sub> (max) | a (max) | b (min) | D <sub>2</sub> (max) | f (max) |         |
| 10                        | 22 | 6  | 0.3     | 0.3                                    | 20.8                 | 1.05    | 0.8     | 24.8                 | 0.7     | 61900N  |
|                           | 30 | 9  | 0.6     | 0.5                                    | 28.17                | 2.06    | 1.35    | 34.7                 | 1.12    | 6200N   |
|                           | 35 | 11 | 0.6     | 0.5                                    | 33.17                | 2.06    | 1.35    | 39.7                 | 1.12    | 6200NR  |
| 12                        | 24 | 6  | 0.3     | 0.3                                    | 22.8                 | 1.05    | 0.8     | 26.8                 | 0.7     | 61901N  |
|                           | 32 | 10 | 0.6     | 0.5                                    | 30.15                | 2.06    | 1.35    | 36.7                 | 1.12    | 6201N   |
|                           | 37 | 12 | 1       | 0.5                                    | 34.77                | 2.06    | 1.35    | 41.3                 | 1.12    | 6301N   |
| 15                        | 28 | 7  | 0.3     | 0.3                                    | 26.7                 | 1.3     | 0.95    | 30.8                 | 0.85    | 61902N  |
|                           | 32 | 9  | 0.3     | 0.3                                    | 30.15                | 2.06    | 1.35    | 36.7                 | 0.85    | 6202N   |
|                           | 35 | 11 | 0.6     | 0.5                                    | 33.17                | 2.06    | 1.35    | 39.7                 | 1.12    | 6202NR  |
| 17                        | 42 | 13 | 1       | 0.5                                    | 39.75                | 2.06    | 1.35    | 46.3                 | 1.12    | 6302N   |
|                           | 30 | 7  | 0.3     | 0.3                                    | 28.7                 | 1.3     | 0.95    | 32.8                 | 0.85    | 61903N  |
|                           | 35 | 10 | 0.3     | 0.3                                    | 33.17                | 2.06    | 1.35    | 39.7                 | 1.12    | 6203N   |
| 20                        | 40 | 12 | 0.6     | 0.5                                    | 38.1                 | 2.06    | 1.35    | 44.6                 | 1.12    | 6203NR  |
|                           | 47 | 14 | 1       | 0.5                                    | 44.6                 | 2.46    | 1.35    | 52.7                 | 1.12    | 6303N   |
|                           | 32 | 7  | 0.3     | 0.3                                    | 30.7                 | 1.3     | 0.95    | 34.8                 | 0.85    | 61904N  |
| 22                        | 37 | 9  | 0.3     | 0.3                                    | 35.7                 | 1.7     | 0.95    | 39.8                 | 0.85    | 61904NR |
|                           | 42 | 12 | 0.6     | 0.5                                    | 39.75                | 2.06    | 1.35    | 46.3                 | 1.12    | 6204N   |
|                           | 47 | 14 | 1       | 0.5                                    | 44.6                 | 2.46    | 1.35    | 52.7                 | 1.12    | 6304N   |
| 25                        | 52 | 15 | 1.1     | 0.5                                    | 49.73                | 2.46    | 1.35    | 57.9                 | 1.12    | 6304NR  |
|                           | 50 | 14 | 1       | 0.5                                    | 47.6                 | 2.46    | 1.35    | 55.7                 | 1.12    | 62/22N  |
|                           | 56 | 16 | 1.1     | 0.5                                    | 53.6                 | 2.46    | 1.35    | 61.7                 | 1.12    | 63/22N  |
| 28                        | 37 | 7  | 0.3     | 0.3                                    | 35.7                 | 1.3     | 0.95    | 39.8                 | 0.85    | 61905N  |
|                           | 42 | 9  | 0.3     | 0.3                                    | 40.7                 | 1.7     | 0.95    | 44.8                 | 0.85    | 61905NR |
|                           | 47 | 12 | 0.6     | 0.5                                    | 44.6                 | 2.06    | 1.35    | 52.7                 | 1.12    | 6205N   |
| 30                        | 52 | 15 | 1       | 0.5                                    | 49.73                | 2.46    | 1.35    | 57.9                 | 1.12    | 6205NR  |
|                           | 62 | 17 | 1.1     | 0.5                                    | 59.61                | 3.28    | 1.9     | 67.7                 | 1.7     | 6305N   |
|                           | 58 | 16 | 1       | 0.5                                    | 56.6                 | 2.46    | 1.35    | 63.7                 | 1.12    | 62/28NR |
| 32                        | 68 | 18 | 1.1     | 0.5                                    | 64.62                | 3.28    | 1.9     | 74.6                 | 1.7     | 63/28NR |
|                           | 42 | 7  | 0.3     | 0.3                                    | 40.7                 | 1.3     | 0.95    | 44.8                 | 0.85    | 61906N  |
|                           | 47 | 9  | 0.3     | 0.3                                    | 45.7                 | 1.7     | 0.95    | 49.8                 | 0.85    | 61906NR |
| 35                        | 55 | 13 | 1       | 0.5                                    | 52.6                 | 2.06    | 1.35    | 60.7                 | 1.12    | 6206N   |
|                           | 62 | 16 | 1       | 0.5                                    | 59.61                | 3.28    | 1.9     | 67.7                 | 1.7     | 6306N   |
|                           | 72 | 19 | 1.1     | 0.5                                    | 68.81                | 3.28    | 1.9     | 78.6                 | 1.7     | 6306NR  |

\*The color of rubber seals may VARY.

\*All bearings are available in STAINLESS STEEL.

| Basic load rating          |                           | Limiting speed |       | Abutment and fillet Dimensions (mm) |                      |                      |                      |                      |                      | Ref. Weight (g) |
|----------------------------|---------------------------|----------------|-------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------|
| Dynamic C <sub>1</sub> (N) | Static C <sub>0</sub> (N) | Grease         | Oil   | d <sub>1</sub> (min)                | D <sub>1</sub> (max) | D <sub>2</sub> (min) | r <sub>1</sub> (max) | C <sub>1</sub> (max) | C <sub>2</sub> (max) |                 |
| 2490                       | 1130                      | 33000          | 38000 | 12                                  | 20                   | 25.5                 | 0.3                  | 1.5                  | 0.010                |                 |
| 5100                       | 2390                      | 24000          | 30000 | 15                                  | 25                   | 35.5                 | 0.6                  | 2.9                  | 0.032                |                 |
| 8100                       | 3450                      | 21000          | 28000 | 15                                  | 30                   | 40.5                 | 0.6                  | 2.9                  | 0.053                |                 |
| 2700                       | 1320                      | 30000          | 35000 | 14                                  | 22                   | 27.5                 | 0.3                  | 1.5                  | 0.012                |                 |
| 6800                       | 3050                      | 22000          | 27000 | 17                                  | 27                   | 37.5                 | 0.6                  | 2.9                  | 0.037                |                 |
| 9750                       | 4250                      | 19000          | 24000 | 18                                  | 31                   | 42                   | 1                    | 2.9                  | 0.060                |                 |
| 4300                       | 2250                      | 26000          | 31000 | 17                                  | 26                   | 31.5                 | 0.3                  | 1.8                  | 0.017                |                 |
| 5600                       | 2840                      | 23000          | 28000 | 17                                  | 30                   | 37.5                 | 0.3                  | 2.9                  | 0.033                |                 |
| 7850                       | 3700                      | 19000          | 24000 | 20                                  | 30                   | 40.5                 | 0.6                  | 2.9                  | 0.045                |                 |
| 11400                      | 5400                      | 17000          | 20000 | 21                                  | 36                   | 47                   | 1                    | 2.9                  | 0.082                |                 |
| 4600                       | 2550                      | 24000          | 29000 | 19                                  | 28                   | 33.5                 | 0.3                  | 1.8                  | 0.019                |                 |
| 6000                       | 3250                      | 20000          | 25000 | 19                                  | 33                   | 40.5                 | 0.3                  | 2.9                  | 0.041                |                 |
| 9550                       | 4800                      | 17000          | 21000 | 22                                  | 35                   | 45.5                 | 0.6                  | 2.9                  | 0.065                |                 |
| 13600                      | 6550                      | 15000          | 18000 | 23                                  | 41                   | 53.5                 | 1                    | 3.3                  | 0.115                |                 |
| 4000                       | 2640                      | 20000          | 24000 | 22                                  | 30                   | 35.5                 | 0.3                  | 1.8                  | 0.020                |                 |
| 6350                       | 3700                      | 19000          | 23000 | 22                                  | 35                   | 40.5                 | 0.3                  | 2.3                  | 0.037                |                 |
| 9400                       | 5000                      | 17000          | 21000 | 24                                  | 38                   | 47                   | 0.6                  | 2.9                  | 0.069                |                 |
| 12800                      | 6600                      | 14000          | 18000 | 26                                  | 41                   | 53.5                 | 1                    | 3.3                  | 0.106                |                 |
| 15900                      | 7900                      | 13000          | 16000 | 27                                  | 45                   | 58.5                 | 1                    | 3.3                  | 0.144                |                 |
| 13900                      | 6650                      | 13000          | 17000 | 28                                  | 44                   | 56.5                 | 1                    | 3.3                  | 0.120                |                 |
| 18400                      | 9250                      | 12000          | 15000 | 29                                  | 49                   | 62.5                 | 1                    | 3.3                  | 0.176                |                 |
| 4300                       | 2940                      | 18000          | 20000 | 27                                  | 35                   | 40.5                 | 0.3                  | 1.8                  | 0.023                |                 |
| 7000                       | 4500                      | 16000          | 20000 | 27                                  | 40                   | 45.5                 | 0.3                  | 2.3                  | 0.044                |                 |
| 10100                      | 5850                      | 15000          | 18000 | 29                                  | 43                   | 53.5                 | 0.6                  | 2.9                  | 0.078                |                 |
| 14000                      | 7900                      | 12000          | 16000 | 31                                  | 46                   | 58.5                 | 1                    | 3.3                  | 0.128                |                 |
| 23600                      | 12100                     | 11000          | 14000 | 32                                  | 55                   | 68.5                 | 1                    | 4.6                  | 0.232                |                 |
| 17900                      | 9750                      | 11000          | 14000 | 34                                  | 52                   | 64.5                 | 1                    | 3.3                  | 0.175                |                 |
| 26800                      | 14000                     | 10000          | 12000 | 35                                  | 61                   | 76                   | 1                    | 4.6                  | 0.287                |                 |
| 5350                       | 3800                      | 15000          | 17000 | 32                                  | 40                   | 45.5                 | 0.3                  | 1.8                  | 0.027                |                 |
| 7250                       | 5000                      | 14000          | 16000 | 32                                  | 45                   | 50.5                 | 0.3                  | 2.3                  | 0.047                |                 |
| 13200                      | 8300                      | 12000          | 15000 | 35                                  | 50                   | 61.5                 | 1                    | 2.9                  | 0.113                |                 |
| 19500                      | 11300                     | 10000          | 13000 | 36                                  | 56                   | 68.5                 | 1                    | 4.6                  | 0.199                |                 |
| 28700                      | 15000                     | 9200           | 11000 | 37                                  | 65                   | 80                   | 1                    | 4.6                  | 0.346                |                 |



## DEEP GROOVE BALL BEARING

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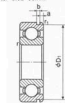


## DEEP GROOVE BALL BEARING

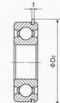
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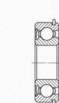
Deep groove ball bearing with snap groove / snap ring and shield

Bore diameter  $\phi 32-60\text{mm}$ 

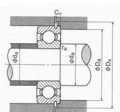
With snap groove (ZZ)



With snap groove (2NR)



With dust cover and snap ring (2NR)



| Principal dimensions (mm) | Dimension of snap groove and snap ring |    |     |         |                      |                      |         | Designation |                      |         |
|---------------------------|----------------------------------------|----|-----|---------|----------------------|----------------------|---------|-------------|----------------------|---------|
|                           | d                                      | D  | B   | f (min) | r <sub>1</sub> (min) | D <sub>1</sub> (max) | a (max) | b (min)     | D <sub>2</sub> (max) | f (max) |
| 32                        | 65                                     | 17 | 1   | 0.5     | 62.6                 | 3.28                 | 1.9     | 70.7        | 1.7                  | 62/32N  |
|                           | 75                                     | 20 | 1.1 | 0.5     | 71.83                | 3.28                 | 1.9     | 81.6        | 1.7                  | 63/32N  |
|                           | 47                                     | 7  | 0.3 | 0.3     | 45.7                 | 1.3                  | 0.95    | 49.8        | 0.85                 | 61807N  |
| 35                        | 55                                     | 10 | 0.6 | 0.5     | 53.7                 | 1.7                  | 0.95    | 57.8        | 0.85                 | 61907N  |
|                           | 62                                     | 14 | 1   | 0.5     | 59.61                | 2.08                 | 1.9     | 67.7        | 1.7                  | 6007N   |
|                           | 72                                     | 17 | 1.1 | 0.5     | 68.81                | 3.28                 | 1.9     | 78.6        | 1.6                  | 6207N   |
|                           | 80                                     | 21 | 1.5 | 0.5     | 76.81                | 3.28                 | 1.9     | 86.6        | 1.6                  | 6307N   |
|                           | 52                                     | 7  | 0.3 | 0.3     | 50.7                 | 1.3                  | 0.95    | 54.8        | 0.85                 | 61808N  |
| 40                        | 62                                     | 12 | 0.6 | 0.5     | 60.7                 | 1.7                  | 0.95    | 64.8        | 0.85                 | 61908N  |
|                           | 68                                     | 15 | 1   | 0.5     | 64.82                | 2.49                 | 1.9     | 74.6        | 1.7                  | 6008N   |
|                           | 80                                     | 18 | 1.1 | 0.5     | 76.81                | 3.28                 | 1.9     | 86.6        | 1.7                  | 6208N   |
|                           | 90                                     | 23 | 1.5 | 0.5     | 86.79                | 3.28                 | 2.7     | 96.5        | 2.46                 | 6308N   |
|                           | 58                                     | 7  | 0.3 | 0.3     | 56.7                 | 1.3                  | 0.95    | 60.8        | 0.85                 | 61809N  |
| 45                        | 68                                     | 12 | 0.6 | 0.5     | 66.7                 | 1.7                  | 0.95    | 70.8        | 0.85                 | 61909N  |
|                           | 75                                     | 16 | 1   | 0.5     | 71.83                | 2.49                 | 1.9     | 81.6        | 1.7                  | 6009N   |
|                           | 85                                     | 19 | 1.1 | 0.5     | 81.81                | 3.28                 | 1.9     | 91.6        | 1.7                  | 6209N   |
|                           | 100                                    | 25 | 1.5 | 0.5     | 96.8                 | 3.28                 | 2.7     | 106.5       | 2.46                 | 6309N   |
|                           | 65                                     | 7  | 0.3 | 0.3     | 63.7                 | 1.3                  | 0.95    | 67.8        | 0.85                 | 61810N  |
| 50                        | 72                                     | 12 | 0.6 | 0.5     | 70.7                 | 1.7                  | 0.95    | 74.8        | 0.85                 | 61910N  |
|                           | 80                                     | 16 | 1   | 0.5     | 76.81                | 2.49                 | 1.9     | 86.6        | 1.7                  | 6010N   |
|                           | 90                                     | 20 | 1.1 | 0.5     | 86.79                | 3.28                 | 2.7     | 96.5        | 2.46                 | 6210N   |
|                           | 110                                    | 27 | 2   | 0.5     | 106.81               | 3.28                 | 2.7     | 116.6       | 2.46                 | 6310N   |
|                           | 72                                     | 9  | 0.3 | 0.3     | 70.7                 | 1.7                  | 0.95    | 74.8        | 0.85                 | 61811N  |
| 55                        | 80                                     | 13 | 1   | 0.5     | 77.9                 | 2.1                  | 1.3     | 84.4        | 1.12                 | 61911N  |
|                           | 90                                     | 18 | 1.1 | 0.5     | 86.79                | 2.87                 | 2.7     | 96.5        | 2.46                 | 6011N   |
|                           | 100                                    | 21 | 1.5 | 0.5     | 96.8                 | 3.28                 | 2.7     | 106.5       | 2.46                 | 6211N   |
|                           | 120                                    | 29 | 2   | 0.5     | 115.21               | 4.06                 | 3.1     | 129.7       | 2.82                 | 6311N   |
|                           | 78                                     | 10 | 0.3 | 0.3     | 76.2                 | 1.7                  | 1.3     | 82.7        | 1.12                 | 61812N  |
| 60                        | 85                                     | 13 | 1   | 0.5     | 82.9                 | 2.1                  | 1.3     | 89.4        | 1.12                 | 61912N  |
|                           | 95                                     | 18 | 1.1 | 0.5     | 91.82                | 2.87                 | 2.7     | 101.6       | 2.46                 | 6012N   |
|                           | 110                                    | 22 | 1.5 | 0.5     | 106.81               | 3.28                 | 2.7     | 116.6       | 2.46                 | 6212N   |
|                           | 130                                    | 31 | 2.1 | 0.5     | 125.22               | 4.06                 | 3.1     | 139.7       | 2.82                 | 6312N   |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.

| Basic load rating           |                            | Limiting speed |       | Abutment and fillet Dimensions (mm) |                     |                     |                     |                       |       | Ref. Weight (g) |
|-----------------------------|----------------------------|----------------|-------|-------------------------------------|---------------------|---------------------|---------------------|-----------------------|-------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>10</sub> (N) | Grease         | Oil   | d <sub>1</sub> (mm)                 | D <sub>1</sub> (mm) | D <sub>2</sub> (mm) | r <sub>1</sub> (mm) | C <sub>10</sub> (max) |       |                 |
| 22400                       | 13100                      | 9500           | 12000 | 38                                  | 59                  | 71.5                | 1                   | 4.6                   | 0.230 |                 |
| 30000                       | 16200                      | 9000           | 11000 | 39                                  | 68                  | 83                  | 1                   | 4.6                   | 0.382 |                 |
| 4750                        | 3800                       | 13000          | 15000 | 37                                  | 45                  | 50.5                | 0.3                 | 1.8                   | 0.030 |                 |
| 10400                       | 7150                       | 12000          | 14000 | 39                                  | 51                  | 58.5                | 0.6                 | 2.3                   | 0.075 |                 |
| 16000                       | 10300                      | 11000          | 13000 | 40                                  | 57                  | 68.5                | 1                   | 3.4                   | 0.150 |                 |
| 25700                       | 15300                      | 9000           | 11000 | 42                                  | 65                  | 80                  | 1                   | 4.6                   | 0.288 |                 |
| 33500                       | 19100                      | 8400           | 10000 | 44                                  | 71                  | 88                  | 1.5                 | 4.6                   | 0.457 |                 |
| 5950                        | 4900                       | 12000          | 14000 | 42                                  | 50                  | 55.5                | 0.3                 | 1.8                   | 0.034 |                 |
| 13700                       | 9950                       | 11000          | 13000 | 44                                  | 58                  | 65.5                | 0.6                 | 2.3                   | 0.110 |                 |
| 16800                       | 11500                      | 9500           | 12000 | 45                                  | 63                  | 76                  | 1                   | 3.8                   | 0.186 |                 |
| 29100                       | 17900                      | 8200           | 10000 | 47                                  | 73                  | 88                  | 1                   | 4.6                   | 0.366 |                 |
| 40500                       | 24100                      | 7500           | 9000  | 49                                  | 81                  | 98                  | 1.5                 | 5.9                   | 0.633 |                 |
| 5350                        | 4900                       | 11000          | 13000 | 47                                  | 56                  | 61.5                | 0.3                 | 1.8                   | 0.042 |                 |
| 14100                       | 10900                      | 10000          | 12000 | 49                                  | 64                  | 72                  | 0.6                 | 2.3                   | 0.124 |                 |
| 20900                       | 15200                      | 8800           | 11000 | 50                                  | 70                  | 83                  | 1                   | 3.8                   | 0.239 |                 |
| 32500                       | 20500                      | 7600           | 9300  | 52                                  | 78                  | 93                  | 1                   | 4.6                   | 0.407 |                 |
| 53000                       | 32000                      | 6700           | 8000  | 54                                  | 91                  | 108                 | 1.5                 | 5.4                   | 0.833 |                 |
| 6400                        | 5800                       | 10000          | 12000 | 52                                  | 63                  | 68.5                | 0.3                 | 1.8                   | 0.054 |                 |
| 14500                       | 11700                      | 9500           | 11000 | 54                                  | 68                  | 76                  | 0.6                 | 2.3                   | 0.127 |                 |
| 21800                       | 16600                      | 8300           | 10000 | 55                                  | 75                  | 88                  | 1                   | 3.8                   | 0.252 |                 |
| 35000                       | 23200                      | 7000           | 8600  | 57                                  | 83                  | 98                  | 1                   | 5.4                   | 0.463 |                 |
| 62000                       | 38100                      | 6200           | 7300  | 60                                  | 100                 | 118                 | 2                   | 5.4                   | 1.070 |                 |
| 8800                        | 8100                       | 8500           | 10000 | 57                                  | 70                  | 78                  | 0.3                 | 2.3                   | 0.085 |                 |
| 16000                       | 13200                      | 8000           | 9000  | 60                                  | 75                  | 86                  | 1                   | 2.9                   | 0.180 |                 |
| 28300                       | 21300                      | 7500           | 9000  | 61                                  | 84                  | 98                  | 1                   | 5                     | 0.375 |                 |
| 43500                       | 29300                      | 6300           | 7700  | 64                                  | 91                  | 108                 | 1.5                 | 5.4                   | 0.607 |                 |
| 71500                       | 44500                      | 5600           | 6600  | 65                                  | 110                 | 131.5               | 2                   | 6.5                   | 1.370 |                 |
| 11500                       | 10600                      | 8000           | 9500  | 62                                  | 76                  | 84                  | 0.3                 | 2.5                   | 0.110 |                 |
| 15200                       | 13500                      | 7500           | 9000  | 65                                  | 80                  | 91                  | 1                   | 2.9                   | 0.195 |                 |
| 29400                       | 23200                      | 7000           | 8300  | 66                                  | 89                  | 103                 | 1                   | 5                     | 0.403 |                 |
| 52500                       | 36000                      | 5800           | 7100  | 69                                  | 101                 | 118                 | 1.5                 | 5.4                   | 0.783 |                 |
| 82000                       | 52000                      | 5100           | 6100  | 72                                  | 118                 | 141.5               | 2                   | 6.5                   | 1.700 |                 |



## DEEP GROOVE BALL BEARING

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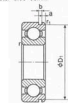


## DEEP GROOVE BALL BEARING

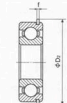
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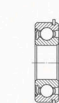
Deep groove ball bearing with snap groove / snap ring and shield

Bore diameter  $\phi 65-90\text{mm}$ 

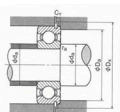
With snap groove (ZZ)



With snap groove (2NR)



With dust cover and snap ring (2NR)



| Principal dimensions (mm) |     |    | Dimension of snap groove and snap ring |                     |                      |         |        | Designation          |         |        |
|---------------------------|-----|----|----------------------------------------|---------------------|----------------------|---------|--------|----------------------|---------|--------|
| d                         | D   | B  | f (mm)                                 | r <sub>1</sub> (mm) | D <sub>1</sub> (max) | a (max) | b (mm) | D <sub>2</sub> (max) | f (max) |        |
| 65                        | 85  | 10 | 0.6                                    | 0.5                 | 82.9                 | 1.7     | 1.3    | 89.4                 | 1.12    | 61813N |
|                           | 90  | 13 | 1                                      | 0.5                 | 87.9                 | 2.1     | 1.3    | 94.4                 | 1.12    | 61913N |
|                           | 100 | 18 | 1.1                                    | 0.5                 | 96.8                 | 2.87    | 2.7    | 106.5                | 2.46    | 6013N  |
|                           | 120 | 23 | 1.5                                    | 0.5                 | 115.21               | 4.06    | 3.1    | 129.7                | 2.82    | 6213N  |
|                           | 140 | 33 | 2.1                                    | 0.5                 | 135.23               | 4.9     | 3.1    | 149.7                | 2.82    | 6313N  |
| 70                        | 90  | 10 | 0.6                                    | 0.5                 | 87.9                 | 1.7     | 1.3    | 94.4                 | 1.12    | 61814N |
|                           | 100 | 16 | 1                                      | 0.5                 | 97.9                 | 2.5     | 1.3    | 104.4                | 1.12    | 61914N |
|                           | 110 | 20 | 1.1                                    | 0.5                 | 106.81               | 2.87    | 2.7    | 116.6                | 2.46    | 6014N  |
|                           | 125 | 24 | 1.5                                    | 0.5                 | 120.22               | 4.06    | 3.1    | 134.7                | 2.82    | 6214N  |
|                           | 150 | 35 | 2.1                                    | 0.5                 | 145.24               | 4.9     | 3.1    | 159.7                | 2.82    | 6314N  |
| 75                        | 95  | 10 | 0.6                                    | 0.5                 | 92.9                 | 1.7     | 1.3    | 99.4                 | 1.12    | 61815N |
|                           | 105 | 16 | 1                                      | 0.5                 | 102.6                | 2.5     | 1.3    | 110.7                | 1.12    | 61915N |
|                           | 115 | 20 | 1.1                                    | 0.5                 | 111.81               | 2.87    | 2.7    | 121.6                | 2.46    | 6015N  |
|                           | 130 | 25 | 1.5                                    | 0.5                 | 125.22               | 4.06    | 3.1    | 139.7                | 2.82    | 6215N  |
|                           | 160 | 37 | 2.1                                    | 0.5                 | 155.22               | 4.9     | 3.1    | 169.7                | 2.82    | 6315N  |
| 80                        | 100 | 10 | 0.6                                    | 0.5                 | 97.9                 | 1.7     | 1.3    | 104.4                | 1.12    | 61816N |
|                           | 110 | 16 | 1                                      | 0.5                 | 107.6                | 2.5     | 1.3    | 115.7                | 1.12    | 61916N |
|                           | 125 | 22 | 1.1                                    | 0.5                 | 120.22               | 2.87    | 3.1    | 134.7                | 2.82    | 6016N  |
|                           | 140 | 26 | 2                                      | 0.5                 | 135.23               | 4.9     | 3.1    | 149.7                | 2.82    | 6216N  |
|                           | 170 | 39 | 2.1                                    | 0.5                 | 163.65               | 5.69    | 3.5    | 182.9                | 3.1     | 6316N  |
| 85                        | 110 | 13 | 1                                      | 0.5                 | 107.6                | 2.1     | 1.3    | 115.7                | 1.12    | 61817N |
|                           | 120 | 18 | 1.1                                    | 0.5                 | 117.6                | 3.3     | 1.3    | 125.7                | 1.12    | 61917N |
|                           | 130 | 22 | 1.1                                    | 0.5                 | 125.22               | 2.87    | 3.1    | 139.7                | 2.82    | 6017N  |
|                           | 150 | 28 | 2                                      | 0.5                 | 145.24               | 4.9     | 3.1    | 159.7                | 2.82    | 6217N  |
|                           | 180 | 41 | 3                                      | 0.5                 | 173.66               | 5.69    | 3.5    | 192.9                | 3.1     | 6317N  |
| 90                        | 115 | 13 | 1                                      | 0.5                 | 112.6                | 2.1     | 1.3    | 120.7                | 1.2     | 61818N |
|                           | 125 | 18 | 1.1                                    | 0.5                 | 122.6                | 3.3     | 1.3    | 130.7                | 1.2     | 61918N |
|                           | 140 | 24 | 1.5                                    | 0.5                 | 135.23               | 3.71    | 3.1    | 149.7                | 2.82    | 6018N  |
|                           | 160 | 30 | 2                                      | 0.5                 | 155.22               | 4.9     | 3.1    | 169.7                | 2.82    | 6218N  |
|                           | 190 | 43 | 3                                      | 0.5                 | 183.64               | 5.69    | 3.5    | 202.9                | 3.1     | 6318N  |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.

| Basic load rating          |                           | Limiting speed | Abutment and fillet Dimensions (mm) |     |                     |                      |                     |                      |                      | Ref. Weight (g) |
|----------------------------|---------------------------|----------------|-------------------------------------|-----|---------------------|----------------------|---------------------|----------------------|----------------------|-----------------|
| Dynamic C <sub>1</sub> (N) | Static C <sub>0</sub> (N) |                | Grease                              | Oil | d <sub>1</sub> (mm) | D <sub>1</sub> (max) | D <sub>2</sub> (mm) | r <sub>1</sub> (max) | C <sub>v</sub> (max) |                 |
| 11900                      | 11500                     | 7500           | 8500                                | 69  | 81                  | 91                   | 0.6                 | 2.5                  | 0.130                |                 |
| 17400                      | 16000                     | 7000           | 8500                                | 70  | 85                  | 96                   | 1                   | 2.9                  | 0.210                |                 |
| 30500                      | 25200                     | 6500           | 7800                                | 71  | 94                  | 108                  | 1                   | 5                    | 0.413                |                 |
| 57000                      | 40000                     | 5300           | 6500                                | 74  | 111                 | 131.5                | 1.5                 | 6.5                  | 0.960                |                 |
| 92500                      | 69500                     | 4700           | 5700                                | 77  | 128                 | 152                  | 2                   | 7.3                  | 2.08                 |                 |
| 12100                      | 11900                     | 7000           | 8000                                | 74  | 86                  | 96                   | 0.6                 | 2.5                  | 0.140                |                 |
| 23700                      | 21100                     | 6500           | 7500                                | 75  | 95                  | 106                  | 1                   | 3.3                  | 0.332                |                 |
| 38000                      | 31000                     | 6000           | 7100                                | 78  | 104                 | 118                  | 1                   | 5                    | 0.580                |                 |
| 62000                      | 44000                     | 5000           | 5900                                | 79  | 116                 | 136.5                | 1.5                 | 6.5                  | 1.07                 |                 |
| 104000                     | 68000                     | 4400           | 5300                                | 82  | 138                 | 162                  | 2                   | 7.3                  | 2.52                 |                 |
| 12500                      | 12800                     | 6500           | 7500                                | 79  | 91                  | 101                  | 0.6                 | 2.5                  | 0.150                |                 |
| 20600                      | 19700                     | 6200           | 7200                                | 80  | 100                 | 112                  | 1                   | 3.3                  | 0.350                |                 |
| 39500                      | 33500                     | 5700           | 6700                                | 81  | 109                 | 123                  | 1                   | 5                    | 0.615                |                 |
| 66000                      | 49500                     | 4800           | 5600                                | 84  | 121                 | 141.5                | 1.5                 | 6.5                  | 1.18                 |                 |
| 113000                     | 77000                     | 4100           | 5000                                | 87  | 148                 | 172                  | 2                   | 7.3                  | 3.02                 |                 |
| 12700                      | 13300                     | 6000           | 7000                                | 84  | 96                  | 106                  | 0.6                 | 2.5                  | 0.160                |                 |
| 27600                      | 25300                     | 5500           | 6500                                | 85  | 105                 | 117                  | 1                   | 3.3                  | 0.370                |                 |
| 47500                      | 39500                     | 5300           | 6200                                | 88  | 119                 | 136.5                | 1                   | 5.3                  | 0.825                |                 |
| 72500                      | 53000                     | 4500           | 5200                                | 90  | 130                 | 152                  | 2                   | 7.3                  | 1.40                 |                 |
| 123000                     | 86500                     | 3800           | 4500                                | 92  | 158                 | 185                  | 2                   | 8.4                  | 3.59                 |                 |
| 18700                      | 19000                     | 5500           | 6500                                | 90  | 105                 | 117                  | 1                   | 2.9                  | 0.272                |                 |
| 32000                      | 29600                     | 5200           | 6300                                | 91  | 113                 | 127                  | 1                   | 4.1                  | 0.524                |                 |
| 49500                      | 43000                     | 5000           | 6000                                | 91  | 124                 | 141.5                | 1                   | 5.3                  | 0.863                |                 |
| 84000                      | 62000                     | 4200           | 4900                                | 95  | 140                 | 162                  | 2                   | 7.3                  | 1.79                 |                 |
| 133000                     | 96500                     | 3600           | 4300                                | 99  | 166                 | 195                  | 2.5                 | 8.4                  | 4.23                 |                 |
| 19000                      | 19700                     | 5300           | 6200                                | 95  | 110                 | 122                  | 1                   | 2.9                  | 0.288                |                 |
| 33000                      | 31500                     | 5000           | 6000                                | 96  | 119                 | 132                  | 1                   | 4.1                  | 0.549                |                 |
| 58000                      | 49500                     | 4700           | 5600                                | 97  | 133                 | 152                  | 1.5                 | 6.1                  | 1.13                 |                 |
| 96000                      | 71500                     | 3900           | 4600                                | 100 | 150                 | 172                  | 2                   | 7.3                  | 2.15                 |                 |
| 143000                     | 107000                    | 3400           | 4000                                | 104 | 176                 | 205                  | 2.5                 | 8.4                  | 4.91                 |                 |





## DEEP GROOVE BALL BEARING

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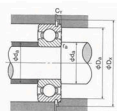
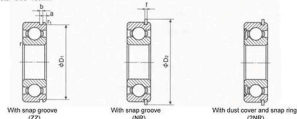


## DEEP GROOVE BALL BEARING

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Deep groove ball bearing with snap groove / snap ring and shield

Bore diameter  $d$  95-130mm

| Principal dimensions (mm) |     |    |         | Dimension of snap groove and snap ring |                      |         |         | Designation          |         |        |
|---------------------------|-----|----|---------|----------------------------------------|----------------------|---------|---------|----------------------|---------|--------|
| d                         | D   | B  | r (min) | r <sub>1</sub> (min)                   | D <sub>1</sub> (max) | a (max) | b (min) | D <sub>2</sub> (max) | f (max) |        |
| 95                        | 120 | 13 | 1       | 0.5                                    | 117.6                | 2.1     | 1.3     | 125.7                | 1.12    | 61819N |
|                           | 130 | 18 | 1.1     | 0.5                                    | 127.6                | 3.3     | 1.3     | 135.7                | 1.12    | 61919N |
|                           | 145 | 24 | 1.5     | 0.5                                    | 140.23               | 3.71    | 3.1     | 154.7                | 2.82    | 6019N  |
|                           | 170 | 32 | 2.1     | 0.5                                    | 163.65               | 5.69    | 3.5     | 182.9                | 3.1     | 6219N  |
|                           | 200 | 45 | 3       | 0.5                                    | 193.65               | 5.69    | 3.5     | 212.9                | 3.1     | 6319N  |
| 100                       | 125 | 13 | 1       | 0.5                                    | 122.6                | 2.1     | 1.3     | 130.7                | 1.12    | 61820N |
|                           | 140 | 20 | 1.1     | 0.5                                    | 137.6                | 3.3     | 1.9     | 145.7                | 1.7     | 61920N |
|                           | 150 | 24 | 1.5     | 0.5                                    | 145.24               | 3.71    | 3.1     | 159.7                | 2.82    | 6020N  |
|                           | 180 | 34 | 2.1     | 0.5                                    | 173.66               | 5.69    | 3.5     | 192.9                | 3.1     | 6220N  |
| 105                       | 130 | 13 | 1       | 0.5                                    | 127.6                | 2.1     | 1.3     | 135.7                | 1.12    | 61821N |
|                           | 145 | 20 | 1.1     | 0.5                                    | 142.6                | 3.3     | 1.9     | 150.7                | 1.7     | 61921N |
|                           | 160 | 26 | 2       | 0.5                                    | 155.22               | 3.71    | 3.1     | 169.7                | 2.82    | 6021N  |
|                           | 190 | 36 | 2.1     | 0.5                                    | 183.64               | 5.69    | 3.5     | 202.9                | 3.1     | 6221N  |
| 110                       | 140 | 16 | 1       | 0.5                                    | 137.6                | 2.5     | 1.9     | 145.7                | 1.7     | 61822N |
|                           | 150 | 20 | 1.1     | 0.5                                    | 147.6                | 3.3     | 1.9     | 155.7                | 1.7     | 61922N |
|                           | 170 | 28 | 2       | 0.5                                    | 163.65               | 3.71    | 3.5     | 182.9                | 3.1     | 6022N  |
|                           | 200 | 38 | 2.1     | 0.5                                    | 193.65               | 5.69    | 3.5     | 212.9                | 3.1     | 6222N  |
| 120                       | 150 | 16 | 1       | 0.5                                    | 147.6                | 2.5     | 1.9     | 155.7                | 1.7     | 61824N |
|                           | 165 | 22 | 1.1     | 0.5                                    | 161.8                | 3.7     | 1.9     | 171.5                | 1.7     | 61924N |
|                           | 180 | 28 | 2       | 0.5                                    | 173.66               | 3.71    | 3.5     | 192.9                | 3.1     | 6024N  |
| 130                       | 165 | 18 | 1.1     | 0.5                                    | 161.8                | 3.3     | 1.9     | 171.5                | 1.7     | 61826N |
|                           | 180 | 24 | 1.5     | 0.5                                    | 176.8                | 3.7     | 1.9     | 186.5                | 1.7     | 61926N |
|                           | 200 | 33 | 2       | 0.5                                    | 193.65               | 5.69    | 3.5     | 212.9                | 3.1     | 6026N  |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.

| Basic load rating           |                             | Limiting speed |      | Abutment and fillet Dimensions (mm) |                     |                     |                     |                       |       | Ref. Weight (g) |
|-----------------------------|-----------------------------|----------------|------|-------------------------------------|---------------------|---------------------|---------------------|-----------------------|-------|-----------------|
| Dynamic C <sub>10</sub> (N) | Static C <sub>010</sub> (N) | Grease         | Oil  | d <sub>1</sub> (mm)                 | D <sub>1</sub> (mm) | D <sub>2</sub> (mm) | r <sub>s</sub> (mm) | C <sub>r</sub> (mm/s) |       |                 |
| 19300                       | 20500                       | 5000           | 6000 | 100                                 | 115                 | 127                 | 1                   | 2.9                   | 0.307 |                 |
| 33500                       | 33500                       | 4700           | 5500 | 101                                 | 124                 | 137                 | 1                   | 4.1                   | 0.576 |                 |
| 60500                       | 54000                       | 4500           | 5300 | 102                                 | 138                 | 157                 | 1.5                 | 6.1                   | 1.16  |                 |
| 109000                      | 81500                       | 3700           | 4300 | 107                                 | 158                 | 185                 | 2                   | 8.4                   | 2.62  |                 |
| 153000                      | 118000                      | 3200           | 3800 | 109                                 | 186                 | 215                 | 2.5                 | 8.4                   | 5.67  |                 |
| 19600                       | 21200                       | 4600           | 5500 | 105                                 | 120                 | 132                 | 1                   | 2.9                   | 0.320 |                 |
| 37000                       | 36500                       | 4400           | 5300 | 106                                 | 134                 | 147                 | 1                   | 4.7                   | 0.780 |                 |
| 60000                       | 54000                       | 4200           | 5000 | 107                                 | 143                 | 162                 | 1.5                 | 6.1                   | 1.20  |                 |
| 122000                      | 93000                       | 3500           | 4100 | 112                                 | 168                 | 195                 | 2                   | 8.4                   | 3.14  |                 |
| 19900                       | 21900                       | 4500           | 5500 | 110                                 | 125                 | 137                 | 1                   | 2.9                   | 0.335 |                 |
| 42500                       | 42000                       | 4200           | 5100 | 111                                 | 139                 | 152                 | 1                   | 4.7                   | 0.803 |                 |
| 72500                       | 65500                       | 4000           | 4800 | 113                                 | 152                 | 172                 | 2                   | 6.1                   | 1.54  |                 |
| 133000                      | 104000                      | 3200           | 3800 | 117                                 | 178                 | 205                 | 2                   | 8.4                   | 3.76  |                 |
| 27300                       | 29400                       | 4200           | 5100 | 115                                 | 135                 | 147                 | 1                   | 3.9                   | 0.526 |                 |
| 38000                       | 38500                       | 4000           | 5000 | 116                                 | 144                 | 157                 | 1                   | 4.7                   | 0.846 |                 |
| 84500                       | 73000                       | 3800           | 4500 | 118                                 | 162                 | 185                 | 2                   | 6.4                   | 1.91  |                 |
| 144000                      | 117000                      | 3000           | 3700 | 122                                 | 188                 | 215                 | 2                   | 8.4                   | 4.36  |                 |
| 28300                       | 31500                       | 4000           | 4800 | 125                                 | 145                 | 157                 | 1                   | 3.9                   | 0.567 |                 |
| 53000                       | 54000                       | 3700           | 4600 | 126                                 | 159                 | 173                 | 1                   | 5.1                   | 1.15  |                 |
| 88000                       | 76500                       | 3500           | 4200 | 128                                 | 172                 | 195                 | 2                   | 6.4                   | 2.36  |                 |
| 37000                       | 41000                       | 3600           | 4400 | 126                                 | 158                 | 173                 | 1                   | 4.7                   | 0.815 |                 |
| 65000                       | 67000                       | 3400           | 4200 | 137                                 | 173                 | 188                 | 1.5                 | 5.1                   | 1.81  |                 |
| 106000                      | 101000                      | 3200           | 3800 | 138                                 | 192                 | 215                 | 2                   | 8.4                   | 3.60  |                 |



## DEEP GROOVE BALL BEARING

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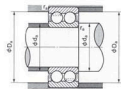
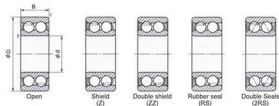
## DEEP GROOVE BALL BEARING

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## Double-row deep groove ball bearing

Bore diameter d: 10-55mm



| d  | Principal dimensions (mm) |    |        | Designation | Basic load rating          |                           |
|----|---------------------------|----|--------|-------------|----------------------------|---------------------------|
|    | D                         | B  | r (mm) |             | Dynamic C <sub>N</sub> (N) | Static C <sub>0</sub> (N) |
| 10 | 30                        | 14 | 0.6    | 4200        | 9230                       | 5200                      |
|    | 35                        | 17 | 0.6    | 4300        | 14300                      | 8900                      |
| 12 | 32                        | 14 | 0.6    | 4201        | 10600                      | 6200                      |
|    | 37                        | 17 | 1.0    | 4301        | 13000                      | 7800                      |
| 15 | 35                        | 14 | 0.6    | 4202        | 11900                      | 7500                      |
|    | 42                        | 17 | 1.0    | 4302        | 14800                      | 9500                      |
| 17 | 40                        | 16 | 0.6    | 4203        | 14800                      | 9500                      |
|    | 47                        | 19 | 1.0    | 4303        | 19500                      | 13200                     |
| 20 | 47                        | 18 | 1.0    | 4204        | 17800                      | 12500                     |
|    | 52                        | 21 | 1.1    | 4304        | 23400                      | 16000                     |
| 25 | 52                        | 18 | 1.0    | 4205        | 19000                      | 14600                     |
|    | 62                        | 24 | 1.1    | 4305        | 31900                      | 22400                     |
| 30 | 62                        | 20 | 1.0    | 4206        | 26000                      | 20800                     |
|    | 72                        | 27 | 1.1    | 4306        | 41000                      | 30000                     |
| 35 | 72                        | 23 | 1.1    | 4207        | 35100                      | 28500                     |
|    | 80                        | 31 | 1.5    | 4307        | 50700                      | 3800                      |
| 40 | 80                        | 23 | 1.1    | 4208        | 37100                      | 32500                     |
|    | 90                        | 33 | 1.5    | 4308        | 55900                      | 45000                     |
| 45 | 85                        | 23 | 1.1    | 4209        | 39000                      | 36000                     |
|    | 100                       | 36 | 1.5    | 4309        | 68900                      | 56000                     |
| 50 | 90                        | 23 | 1.1    | 4210        | 41000                      | 40000                     |
|    | 110                       | 40 | 2.0    | 4310        | 81900                      | 69500                     |
| 55 | 100                       | 25 | 1.5    | 4211        | 44900                      | 44000                     |
|    | 120                       | 40 | 2.0    | 4311        | 97500                      | 83000                     |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.

| Limiting speed |       | Abutment and fillet Dimensions (mm) |                      |                      | Ref. Weight (g) |
|----------------|-------|-------------------------------------|----------------------|----------------------|-----------------|
| Grease         | Oil   | d <sub>2</sub> (mm)                 | D <sub>2</sub> (max) | r <sub>2</sub> (max) |                 |
| 18000          | 22000 | 14.0                                | 26.0                 | 0.6                  | 0.049           |
| 8600           | 17500 | -                                   | -                    | -                    | 0.091           |
| 17000          | 20000 | 16.0                                | 28.0                 | 0.6                  | 0.053           |
| 15000          | 18000 | 17.0                                | 32.0                 | 1.0                  | 0.092           |
| 14000          | 17000 | 19.0                                | 31.0                 | 0.6                  | 0.059           |
| 12000          | 15000 | 20.0                                | 37.0                 | 1.0                  | 0.120           |
| 12000          | 15000 | 21.0                                | 36.0                 | 0.6                  | 0.090           |
| 10000          | 13000 | 22.0                                | 42.0                 | 1.0                  | 0.160           |
| 10000          | 13000 | 25.0                                | 42.0                 | 1.0                  | 0.140           |
| 9500           | 12000 | 26.5                                | 45.0                 | 1.0                  | 0.210           |
| 9000           | 11000 | 30.0                                | 47.0                 | 1.0                  | 0.160           |
| 8500           | 10000 | 31                                  | 55.5                 | 1.0                  | 0.340           |
| 8000           | 9500  | 35.0                                | 57.0                 | 1.0                  | 0.260           |
| 7000           | 8500  | 36.5                                | 65.5                 | 1.0                  | 0.500           |
| 6700           | 8000  | 41.5                                | 65.5                 | 1.0                  | 0.400           |
| 6300           | 7500  | 43.0                                | 72.0                 | 1.5                  | 0.690           |
| 6000           | 7000  | 46.5                                | 73.5                 | 1.0                  | 0.500           |
| 5600           | 6700  | 48.0                                | 82.0                 | 1.5                  | 0.950           |
| 5600           | 6700  | 51.5                                | 78.5                 | 1.0                  | 0.540           |
| 5000           | 6000  | 53.0                                | 92.0                 | 1.5                  | 1.250           |
| 5000           | 6000  | 56.5                                | 83.5                 | 1.0                  | 0.580           |
| 4500           | 5300  | 59.0                                | 101.0                | 2.0                  | 1.700           |
| 4800           | 5600  | 63.0                                | 92.0                 | 1.5                  | 0.800           |
| 4300           | 5000  | 64.0                                | 111.0                | 2.0                  | 2.150           |



## DEEP GROOVE BALL BEARING

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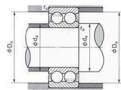
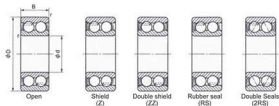
## DEEP GROOVE BALL BEARING

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## Double-row deep groove ball bearing

Bore diameter d: 60-110mm



| Principal dimensions (mm) |     |    |        | Designation | Basic load rating          |                           |
|---------------------------|-----|----|--------|-------------|----------------------------|---------------------------|
| d                         | D   | B  | r (mm) |             | Dynamic C <sub>N</sub> (N) | Static C <sub>0</sub> (N) |
| 60                        | 110 | 28 | 1.5    | 4212        | 57200                      | 55000                     |
|                           | 130 | 46 | 2.1    | 4312        | 112000                     | 98000                     |
| 65                        | 120 | 31 | 1.5    | 4213        | 67600                      | 67000                     |
|                           | 140 | 48 | 2.1    | 4313        | 121000                     | 106000                    |
| 70                        | 125 | 31 | 1.5    | 4214        | 70200                      | 73500                     |
|                           | 150 | 51 | 2.1    | 4314        | 138000                     | 125000                    |
| 75                        | 130 | 31 | 1.5    | 4215        | 72800                      | 80000                     |
|                           | 160 | 55 | 2.1    | 4315        | 156000                     | 143000                    |
| 80                        | 140 | 33 | 2.0    | 4216        | 80600                      | 90000                     |
|                           | 170 | 58 | 2.1    | 4316        | 164000                     | 155000                    |
| 85                        | 150 | 36 | 2.0    | 4217        | 93600                      | 10200                     |
|                           | 180 | 60 | 2.1    | 4317        | 168000                     | 159000                    |
| 90                        | 160 | 40 | 2.0    | 4218        | 112000                     | 122000                    |
|                           | 190 | 64 | 2.1    | 4318        | 172000                     | 163000                    |
| 95                        | 200 | 67 | 2.2    | 4319        | 176000                     | 167000                    |
| 100                       | 180 | 46 | 2.1    | 4220        | 140000                     | 156000                    |
|                           | 215 | 73 | 2.2    | 4320        | 180000                     | 170000                    |
| 105                       | 225 | 77 | 2.2    | 4321        | 185000                     | 175000                    |
| 110                       | 240 | 80 | 2.2    | 4322        | 193000                     | 182000                    |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.

| Limiting speed |      | Abutment and fillet Dimensions (mm) |                      |                      | Ref. Weight (g) |
|----------------|------|-------------------------------------|----------------------|----------------------|-----------------|
| Grease         | Oil  | d <sub>1</sub> (mm)                 | D <sub>1</sub> (max) | r <sub>1</sub> (max) |                 |
| 4500           | 5300 | 68                                  | 102.0                | 1.5                  | 1.100           |
| 3800           | 4500 | 71                                  | 119.0                | 2.0                  | 2.650           |
| 4000           | 4800 | 73                                  | 112.0                | 1.5                  | 1.450           |
| 3600           | 4300 | 76                                  | 129.0                | 2.0                  | 3.250           |
| 3600           | 4300 | 78                                  | 117.0                | 1.5                  | 1.500           |
| 3200           | 3800 | 81                                  | 139.0                | 2.0                  | 3.950           |
| 3400           | 4000 | 83                                  | 122.0                | 1.5                  | 1.600           |
| 3000           | 3600 | 86                                  | 149.0                | 2.0                  | 4.800           |
| 3200           | 3800 | 89                                  | 131.0                | 2.0                  | 2.000           |
| 2800           | 3400 | -                                   | -                    | -                    | 5.600           |
| 3000           | 3600 | 94                                  | 141.0                | 2.0                  | 2.550           |
| 2750           | 3200 | -                                   | -                    | -                    | 6.500           |
| 2800           | 3400 | 99                                  | 151.0                | 2.0                  | 3.200           |
| 2600           | 3150 | -                                   | -                    | -                    | 7.300           |
| 2500           | 3000 | -                                   | -                    | -                    | 8.200           |
| 2400           | 3000 | 111                                 | 160.0                | 2.0                  | 4.700           |
| 2300           | 2800 | -                                   | -                    | -                    | 8.700           |
| 2200           | 2750 | -                                   | -                    | -                    | 9.500           |
| 2100           | 2500 | -                                   | -                    | -                    | 10.30           |



## DEEP GROOVE BALL BEARING

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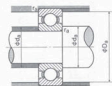
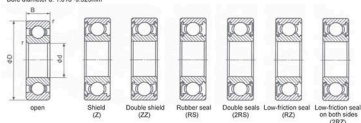
## DEEP GROOVE BALL BEARING

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Inch size's deep groove ball bearing

Bore diameter d: 1.016~9.525mm



| Principal dimensions (mm) |        |        |         | Designation | Basic load rating |              |
|---------------------------|--------|--------|---------|-------------|-------------------|--------------|
| d                         | D      | B      | r (min) |             | Dynamic Cn(N)     | Static Co(N) |
| 1.016                     | 3.175  | 1.101  | 0.08    | R01         | 97                | 26           |
| 1.191                     | 3.967  | 1.588  | 0.08    | R0          | 159               | 44           |
| 1.397                     | 4.762  | 1.984  | 0.08    | R1          | 185               | 56           |
| 1.984                     | 6.350  | 2.380  | 0.08    | R1-4        | 279               | 89           |
| 2.380                     | 4.762  | 1.588  | 0.08    | R133        | 124               | 42           |
|                           | 7.938  | 2.779  | 0.13    | R1-5        | 430               | 152          |
| 6.350                     | 6.350  | 2.380  | 0.08    | R144        | 284               | 96           |
|                           | 7.938  | 2.779  | 0.08    | R2-5        | 560               | 180          |
| 3.175                     | 9.525  | 2.779  | 0.13    | R2-6        | 640               | 224          |
|                           | 9.525  | 3.967  | 0.3     | R2          | 640               | 224          |
| 12.700                    | 12.700 | 4.366  | 0.3     | RA2         | 1150              | 395          |
|                           | 7.938  | 2.779  | 0.08    | R155        | 335               | 133          |
| 7.938                     | 7.938  | 2.799  | 0.08    | R156        | 395               | 143          |
|                           | 9.525  | 63.175 | 0.08    | R166        | 710               | 268          |
| 4.762                     | 12.700 | 3.967  | 0.3     | R3          | 1310              | 490          |
|                           | 12.700 | 4.978  | 0.3     | RA3         | 1310              | 490          |
| 9.525                     | 9.525  | 3.175  | 0.08    | R168        | 268               | 138          |
|                           | 12.700 | 3.175  | 0.13    | R188        | 830               | 370          |
| 15.875                    | 15.875 | 4.978  | 0.3     | R4          | 1480              | 615          |
|                           | 19.050 | -      | 0.41    | RA4         | 2340              | 885          |
| 9.525                     | 22.225 | -      | 0.41    | R6          | 3300              | 1400         |

\* The color of rubber seals may VARY.

\* All bearings are available in STAINLESS STEEL.

| Limiting speed |        | Abutment and fillet Dimensions (mm) |                      |                      | Ref. Weight (g) |
|----------------|--------|-------------------------------------|----------------------|----------------------|-----------------|
| Grease         | Oil    | d <sub>f</sub> (min)                | D <sub>f</sub> (max) | r <sub>f</sub> (max) |                 |
| 110000         | 130000 | 1.6                                 | 2.5                  | 0.08                 | 0.05            |
| 93000          | 110000 | 2                                   | 3.2                  | 0.08                 | 0.11            |
| 81000          | 95000  | 2.2                                 | 3.8                  | 0.08                 | 0.21            |
| 67000          | 79000  | 2.8                                 | 5.5                  | 0.08                 | 0.41            |
| 73000          | 85000  | 3.2                                 | 4                    | 0.08                 | 0.16            |
| 56000          | 66000  | 3.2                                 | 7                    | 0.1                  | 0.76            |
| 59000          | 70000  | 4                                   | 5.5                  | 0.08                 | 0.33            |
| 54000          | 63000  | 4                                   | 7                    | 0.08                 | 0.68            |
| 49000          | 58000  | 4                                   | 8.7                  | 0.1                  | 0.96            |
| 49000          | 58000  | 4.8                                 | 7.8                  | 0.3                  | 1.5             |
| 43000          | 51000  | 4.8                                 | 11                   | 0.3                  | 2.5             |
| 51000          | 60000  | 4.8                                 | 7                    | 0.08                 | 0.61            |
| 49000          | 58000  | 5.6                                 | 7                    | 0.08                 | 0.51            |
| 46000          | 55000  | 5.6                                 | 8.7                  | 0.08                 | 0.89            |
| 41000          | 48000  | 6.4                                 | 11                   | 0.3                  | 2.2             |
| 41000          | 48000  | 6.4                                 | 11                   | 0.3                  | 2.7             |
| 43000          | 51000  | 7.2                                 | 8.7                  | 0.08                 | 0.69            |
| 39000          | 46000  | 7.2                                 | 11.8                 | 0.1                  | 1.7             |
| 36000          | 43000  | 8                                   | 14.2                 | 0.3                  | 4.8             |
| 34000          | 34000  | 8.4                                 | 17                   | 0.4                  | 11              |
| 31000          | 31000  | 11.5                                | 20.2                 | 0.4                  | 15              |

