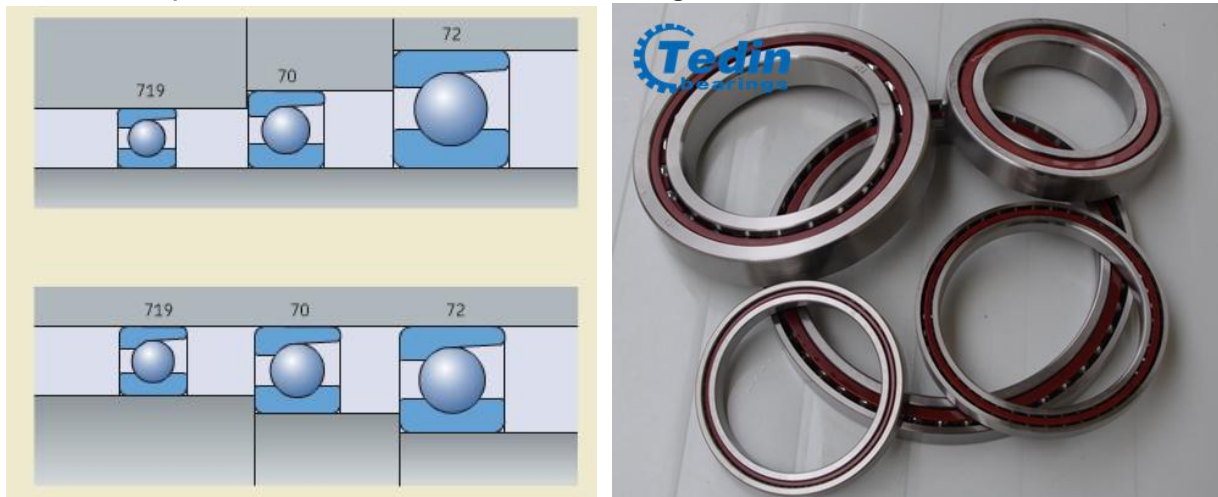


## 70 series Angular Contact Ball Bearings

Single row angular contact ball bearing can only bear axial load in one direction. When bearing radial load, it will cause additional axial force, and can only limit axial displacement of shaft or shell in one direction. The contact angle of angular contact ball bearing is 40 degrees, so it can bear large axial load. The angular contact ball bearing is a non separating design, and the shoulders on both sides of the inner and outer rings are different. In order to improve the load capacity of the bearing, the shoulder on one side will be processed lower, so that the bearing can be installed into more steel balls.



As showed on the above structure:

719 series is the ultra-light series among angular contact ball bearings;

70 series is the light-series among angular contact ball bearings;

72 series is the strengthening series among angular contact ball bearings;

### **Application:**

According to different working conditions, it can be combined in many ways to obtain different bearing capacity of radial and axial load, and meet the requirements of high speed, diameter and axial high stiffness. Therefore, it is widely used in the spindle of precision machine tools.

719 or 70 series bearings should be selected when the rotating speed is high or the radial installation space is small; for heavy load and relatively low speed, 72 series bearings are more suitable.

### **Our services:**

1. Strict control in produce for high quality as a manufacturer
2. Competitive price with prompt delivery
3. OEM manufacturing supplied (Including clients' own brand)
4. Suitable packing according to customer's requirements
5. Large quantity in stock:



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6. 7022AC/P4, 7024AC/P4, 7030AC/P4, 7034AC/P4, 7036AC/P4, 7038AC/P4, 7040AC/P4, 7044AC/P4, 7048AC/P4, etc.

| Designation  | Basic    Sized |               |       |         |      |     | Abutment and fillet<br>dimensions |     |     |     |     | Basic load<br>ratings |        | Limit  | Speed | weight |
|--------------|----------------|---------------|-------|---------|------|-----|-----------------------------------|-----|-----|-----|-----|-----------------------|--------|--------|-------|--------|
| Design       | inner<br>ring  | outer<br>ring | width | Chamfer |      |     | da                                | Da  | Db  | ra  | rb  |                       | static |        |       |        |
| Current Code | d              | D             | B     | r1.2    | r3.4 | a   | min                               | max | max | max | max | Cr                    | Cor    | Grease | Oil   |        |
| —            | mm             |               |       |         |      |     | mm                                |     |     |     |     | KN                    |        | r/min  |       |        |
| 7030B        | 150            | 225           | 35    | 2.1     | 1.1  | 96  | 162                               | 213 | 118 | 2   | 1   | 119                   | 132    | 1900   | 2800  | 4.7    |
| 7032B        | 160            | 240           | 38    | 2.1     | 1.1  | 103 | 172                               | 228 | 233 | 2   | 1   | 143                   | 166    | 1800   | 2600  | 5.75   |
| 7034         | 170            | 260           | 42    | 2.1     | 1.1  |     |                                   |     |     | 2   | 1   |                       |        |        |       | 7.87   |
| 7036B        | 180            | 280           | 46    | 2.1     | 1.1  | 119 | 192                               | 268 | 273 | 2   | 1   | 195                   | 240    | 1600   | 2200  | 10     |
| 7038B        | 190            | 290           | 46    | 2.1     | 1.1  | 124 | 202                               | 278 | 283 | 2   | 1   | 199                   | 255    | 1600   | 2200  | 10.5   |
| 7040C        | 200            | 310           | 51    | 2.1     | 1.1  | 85  | 211                               | 299 | 304 | 2   | 1   | 289                   | 471    | 2800   | 4600  | 14     |
| 7040AC       | 200            | 310           | 51    | 2.1     | 1.1  | 85  | 211                               | 299 | 304 | 2   | 1   | 273                   | 447    | 2600   | 4300  | 14     |
| 7044B        | 220            | 340           | 56    | 3       | 1.1  | 145 | 234                               | 326 | 333 | 2.5 | 1   | 255                   | 345    | 1300   | 1800  | 18     |
| 7048B        | 240            | 360           | 56    | 3       | 1.1  | 154 | 254                               | 346 | 353 | 2.5 | 1   | 260                   | 375    | 1200   | 1700  | 19     |
| 7052C        | 260            | 400           | 65    | 4       | 1.5  |     | 278                               | 382 |     | 3   | 1.5 | 346                   | 490    | 2201   | 3300  | 28.5   |
| 7052AC       | 260            | 400           | 65    | 4       | 1.5  |     | 278                               | 382 |     | 3   | 1.5 | 326                   | 465    | 2101   | 3100  | 28.5   |
| 7056C        | 280            | 420           | 65    | 4       | 1.5  | 134 | 298                               | 402 | 411 | 3   | 1.5 | 351                   | 550    | 1000   | 1500  | 30     |
| 7056AC       | 280            | 420           | 65    | 4       | 1.5  | 179 | 298                               | 402 | 411 | 3   | 1.5 | 319                   | 500    | 900    | 1400  | 30     |
| 7056B        | 280            | 420           | 65    | 4       | 1.5  | 179 | 298                               | 402 | 411 | 3   | 1.5 | 319                   | 500    | 900    | 1400  | 30     |
| 7060C        | 300            | 460           | 74    | 4       | 1.5  | 147 | 318                               | 442 | 451 | 3   | 1.5 | 423                   | 695    | 950    | 1400  | 42.5   |
| 7060AC       | 300            | 460           | 74    | 4       | 1.5  | 147 | 318                               | 442 | 451 | 3   | 1.5 | 423                   | 695    | 950    | 1400  | 42.5   |
| 7060B        | 300            | 460           | 74    | 4       | 1.5  | 196 | 318                               | 442 | 451 | 3   | 1.5 | 377                   | 630    | 900    | 1300  | 42.5   |
| 7064AC       | 320            | 480           | 74    | 4       | 1.5  | 153 | 338                               | 462 | 471 | 3   | 1.5 | 436                   | 735    | 900    | 1300  | 44.5   |
| 7064B        | 320            | 480           | 74    | 4       | 1.5  | 205 | 338                               | 462 | 471 | 3   | 1.5 | 390                   | 670    | 850    | 1200  | 44.5   |
| 7068AC       | 340            | 520           | 82    | 5       | 2    | 165 | 362                               | 498 | 510 | 4   | 2   | 507                   | 900    | 850    | 1200  | 61.5   |
| 7068B        | 340            | 520           | 82    | 5       | 2    | 223 | 362                               | 498 | 510 | 4   | 2   | 449                   | 815    | 800    | 1100  | 61.5   |
| 7072AC       | 360            | 540           | 82    | 5       | 2    | 171 | 382                               | 518 | 530 | 4   | 2   | 520                   | 950    | 850    | 1200  | 62.5   |
| 7072B        | 360            | 540           | 82    | 5       | 2    | 230 | 382                               | 518 | 530 | 4   | 2   | 462                   | 850    | 800    | 1100  | 62.5   |
| 70876AC      | 380            | 480           | 31    | 2       | 1    | 142 | 390                               | 470 | 474 | 2   | 1   | 190                   | 345    | 850    | 1200  | 13.5   |



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|           |     |     |     |     |     |     |     |     |     |   |     |     |      |     |      |      |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|------|-----|------|------|
| 7076AC    | 380 | 560 | 82  | 5   | 2   | 177 | 402 | 538 | 550 | 4 | 2   | 507 | 950  | 800 | 1100 | 65.5 |
| 7076B     | 380 | 560 | 82  | 5   | 2   | 238 | 402 | 538 | 550 | 4 | 2   | 468 | 880  | 750 | 1000 | 65.5 |
| 7080C     | 400 | 600 | 90  | 5   | 2   | 189 | 422 | 578 | 590 | 4 | 2   | 585 | 1120 | 750 | 1000 | 85   |
| 7080AC    | 400 | 600 | 90  | 5   | 2   | 189 | 422 | 578 | 590 | 4 | 2   | 605 | 1180 | 750 | 1000 | 85   |
| 7080B     | 400 | 600 | 90  | 5   | 2   | 255 | 422 | 578 | 590 | 4 | 2   | 527 | 1020 | 700 | 950  | 85   |
| 7084AC    | 420 | 620 | 90  | 5   | 2   | 195 | 442 | 598 | 610 | 4 | 2   | 605 | 1180 | 750 | 1000 | 88.5 |
| 7084B     | 420 | 620 | 90  | 5   | 2   | 263 | 442 | 598 | 610 | 4 | 2   | 540 | 1060 | 670 | 900  | 88.5 |
| 7088AC    | 440 | 650 | 94  | 6   | 3   | 204 | 468 | 622 | 636 | 5 | 2.5 | 650 | 1320 | 700 | 950  | 100  |
| 7088B     | 440 | 650 | 94  | 6   | 3   | 276 | 468 | 622 | 636 | 5 | 2.5 | 572 | 1180 | 630 | 850  | 100  |
| 70892AC   | 460 | 580 | 37  | 2.1 | 1   | 169 | 472 | 568 | 574 | 2 | 1   | 265 | 560  | 750 | 1000 | 24.5 |
| 7092AC    | 460 | 680 | 100 | 6   | 3   | 215 | 488 | 652 | 666 | 5 | 2.5 | 689 | 1460 | 670 | 900  | 120  |
| 7092B     | 460 | 680 | 100 | 6   | 3   | 289 | 488 | 652 | 666 | 5 | 2.5 | 618 | 1290 | 600 | 800  | 120  |
| 7096AC    | 480 | 700 | 100 | 6   | 3   | 220 | 508 | 672 | 686 | 5 | 2.5 | 702 | 1530 | 630 | 850  | 125  |
| 7096B     | 480 | 700 | 100 | 6   | 3   | 298 | 508 | 672 | 686 | 5 | 2.5 | 624 | 1340 | 560 | 750  | 125  |
| 708/500AC | 500 | 620 | 37  | 2.1 | 1.1 | 180 | 512 | 608 | 613 | 2 | 1   | 276 | 620  | 670 | 900  | 27   |
| 70/500AC  | 500 | 720 | 100 | 6   | 3   | 226 | 528 | 692 | 706 | 5 | 2.5 | 715 | 1600 | 600 | 800  | 130  |
| 70/500B   | 500 | 720 | 100 | 6   | 3   | 306 | 528 | 692 | 706 | 5 | 2.5 | 637 | 1400 | 560 | 750  | 130  |

For more information, please contact [Tedin's](#) technical center.