

## Four Point Angular Contact Ball Bearings



Four point angular contact ball bearings comprise 1 piece solid outer rings, 2 pieces split inner rings and ball and cage assemblies with brass or phenolic resin cages. The raceway profiles are such that the ball contacts the outer ring at two points and the split inner ring at one point each. Such a design allows the bearing to carry axial loads in both the directions like a double row angular contact ball bearings without taking up as much axial space. The balls have a contact angle of  $35^{\circ}$  with each ring.

**Types:**

QJ 2 series;

QJ 3 series;

QJ 10 series;

**Bearing Features:**

Less axial space: take up less axial space than double row bearings.

High load carrying capacity: a large number of balls are incorporated;

Separable design of inner rings: easier mounting and dismounting of the bearing.

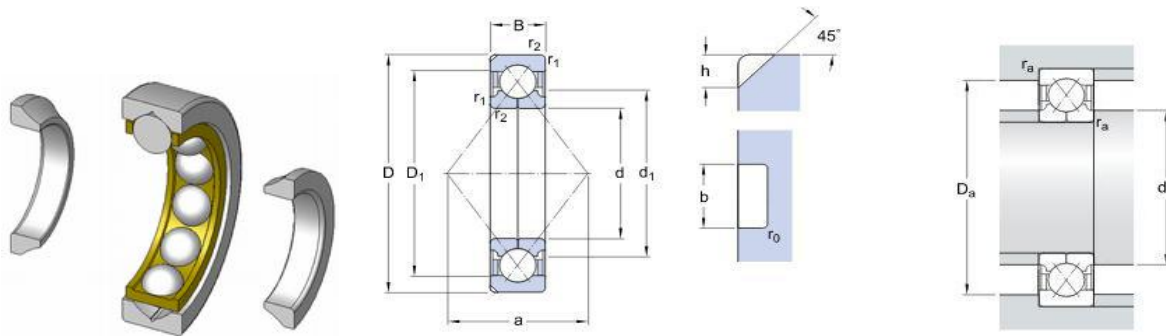
**Applications:**

Agricultural machinery;

Pumps;

Industrial machinery for cleaning and bottling;

Machining equipment for steel, glass, marble, wood, etc;



| Type Code    | Principal dimensions |     |    | Basic load ratings |           | Fatigue load limit | Speed ratings   |                |
|--------------|----------------------|-----|----|--------------------|-----------|--------------------|-----------------|----------------|
|              | (mm)                 |     |    | (kN)               |           | (kN)               | (r/min)         |                |
|              | d                    | D   | B  | Dynamic C          | Static C0 | Pu                 | Reference speed | Limiting speed |
| QJ 324 N2MA  | 120                  | 260 | 55 | 415                | 530       | 16.3               | 3200            | 4500           |
| QJ 224 N2MA  | 120                  | 215 | 40 | 300                | 365       | 12                 | 3600            | 5000           |
| QJ 326 N2MA  | 130                  | 280 | 58 | 455                | 610       | 18                 | 3000            | 4000           |
| QJ 226 N2MA  | 130                  | 230 | 40 | 310                | 400       | 12.7               | 3400            | 4800           |
| QJ 228 N2MA  | 140                  | 250 | 42 | 345                | 475       | 14.3               | 3200            | 4300           |
| QJ 328 N2MA  | 140                  | 300 | 62 | 500                | 695       | 20                 | 2800            | 3800           |
| QJ 230 N2MA  | 150                  | 270 | 45 | 400                | 570       | 16.6               | 3000            | 4000           |
| QJ 330 N2MA  | 150                  | 320 | 65 | 530                | 765       | 21.2               | 2600            | 3600           |
| QJ 1030 N2MA | 150                  | 225 | 35 | 242                | 335       | 10.4               | 2800            | 4500           |
| QJ 332 N2MA  | 160                  | 340 | 68 | 570                | 880       | 23.6               | 2400            | 3400           |
| QJ 232 N2MA  | 160                  | 290 | 48 | 450                | 670       | 19                 | 2800            | 3800           |
| QJ 1032 N2MA | 160                  | 240 | 38 | 270                | 380       | 11.4               | 2600            | 4300           |
| QJ 334 N2MA  | 170                  | 360 | 72 | 655                | 1040      | 27                 | 2200            | 3200           |
| QJ 234 N2MA  | 170                  | 310 | 52 | 455                | 720       | 20                 | 2600            | 3400           |
| QJ 236 N2MA  | 180                  | 320 | 52 | 475                | 765       | 20.8               | 2400            | 3400           |
| QJ 336 N2MA  | 180                  | 380 | 75 | 680                | 1100      | 28                 | 2200            | 3000           |
| QJ 338 N2MA  | 190                  | 400 | 78 | 702                | 1160      | 28.5               | 1700            | 2800           |
| QJ 238 N2MA  | 190                  | 340 | 55 | 510                | 850       | 22.4               | 2200            | 3200           |
| QJ 1038 N2MA | 190                  | 290 | 46 | 364                | 560       | 15.3               | 2200            | 3400           |
| QJ 1040 N2MA | 200                  | 310 | 51 | 390                | 620       | 16.6               | 2000            | 3200           |
| QJ 240 N2MA  | 200                  | 360 | 58 | 540                | 915       | 23.2               | 1800            | 3000           |
| QJ 1240 N2MA | 200                  | 360 | 70 | 520                | 865       | 21.6               | 1800            | 3000           |
| QJ 344 N2MA  | 220                  | 460 | 88 | 780                | 1400      | 32                 | 1500            | 2400           |
| QJ 1244 N2MA | 220                  | 400 | 78 | 364                | 1020      | 24.5               | 1800            | 1800           |



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|                   |     |     |     |      |      |      |      |      |
|-------------------|-----|-----|-----|------|------|------|------|------|
| QJ 344 N2/309829  | 220 | 460 | 88  | 904  | 1660 | 38   | 1500 | 2400 |
| QJ 1248 MA/344524 | 240 | 440 | 85  | 663  | 1220 | 28   | 1500 | 2400 |
| QJ 248 N2MA       | 240 | 440 | 72  | 650  | 1200 | 27.5 | 1500 | 2400 |
| QJ 1252 MA        | 260 | 480 | 90  | 741  | 1460 | 32   | 1300 | 2200 |
| QJ 252 N2MA       | 260 | 480 | 80  | 728  | 1430 | 32   | 1300 | 2200 |
| QJ 1252 N2MA      | 260 | 480 | 90  | 741  | 1460 | 32   | 1300 | 2200 |
| QJ 1256 N2MA      | 280 | 500 | 90  | 728  | 1460 | 31.5 | 1300 | 2000 |
| QJ 1056 N2MA/C4   | 280 | 420 | 65  | 585  | 1140 | 25.5 | 1400 | 2400 |
| QJ 1260 N2MA      | 300 | 540 | 98  | 832  | 1760 | 36.5 | 1200 | 1900 |
| QJ 1060 N2MA      | 300 | 460 | 74  | 650  | 1340 | 29   | 1300 | 2200 |
| QJ 1060 MA        | 300 | 460 | 74  | 650  | 1340 | 29   | 1300 | 2200 |
| QJ 1264 N2MA      | 320 | 580 | 105 | 956  | 2080 | 41.5 | 1100 | 1700 |
| QJ 1064 N2MA      | 320 | 480 | 74  | 715  | 1530 | 32   | 1200 | 2000 |
| QJ 1064 MA        | 320 | 480 | 74  | 715  | 1530 | 32   | 1200 | 2000 |
| QJ 1268 MA/344524 | 340 | 620 | 118 | 1060 | 2450 | 47.5 | 1000 | 1600 |
| QJ 1068 N2MA      | 340 | 520 | 82  | 780  | 1700 | 35.5 | 1100 | 1800 |
| QJ 1072 N2MA      | 360 | 540 | 82  | 852  | 1930 | 38   | 1100 | 1700 |
| QJ 1272 N2MA      | 360 | 650 | 122 | 1110 | 2600 | 49   | 950  | 1500 |
| QJ 1276 N2MA      | 380 | 680 | 132 | 1170 | 2850 | 52   | 900  | 1400 |
| QJ 1076 N2MA      | 380 | 560 | 82  | 819  | 1900 | 37.5 | 1000 | 1700 |
| QJ 1080 N2MA      | 400 | 600 | 90  | 904  | 2160 | 40.5 | 950  | 1500 |
| QJ 1280 N2MA      | 400 | 720 | 140 | 1300 | 3250 | 58.5 | 800  | 1300 |
| QJ 1284 N2MA      | 420 | 760 | 150 | 1430 | 3750 | 64   | 750  | 1300 |
| QJ 1984 MA        | 420 | 560 | 65  | 637  | 1600 | 30.5 | 950  | 1600 |
| QJ 1084 N2MA      | 420 | 620 | 90  | 923  | 2280 | 42.5 | 900  | 1500 |
| QJ 1088 N2MA      | 440 | 650 | 94  | 995  | 2500 | 45.5 | 850  | 1400 |
| QJ 1988 N2MA      | 440 | 600 | 74  | 761  | 1900 | 35.5 | 900  | 1500 |
| QJ 1288 N2MA      | 440 | 790 | 155 | 1400 | 3750 | 64   | 750  | 1200 |
| QJ 1092 N2MA      | 460 | 680 | 100 | 1040 | 2650 | 46.5 | 800  | 1300 |
| QJ 1292 N2MA      | 460 | 830 | 165 | 1530 | 4250 | 69.5 | 700  | 1100 |
| QJ 1096 N2MA      | 480 | 700 | 100 | 1060 | 2800 | 48   | 750  | 1300 |
| QJ 1296 N2MA      | 480 | 870 | 170 | 1680 | 4750 | 76.5 | 670  | 1100 |

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