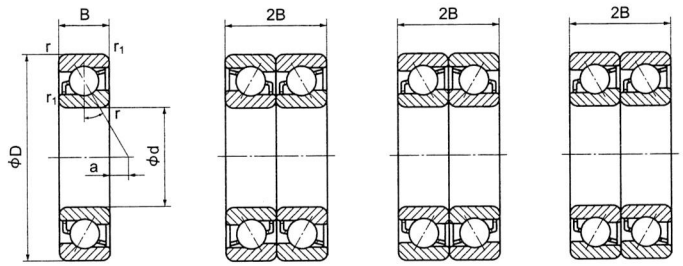
# Angular Contact Ball Bearings

Angular contact ball bearings are non-separable with a contact angle between ball and rings. Balls of angular contact ball bearings are inserted from thin side of outer rings and its ball number is greater than that of deep groove ball bearings. Angular contact ball bearing can accommodate axial loads acting from one direction only and it's suitable for carrying combined loads of axial load and radial load. Paired bearings are used when the load carrying capacity of a single bearing is inadequate or when combined loads act in both directions. Cage in different materials, e.g. sheet steel, brass, glass fiber reinforced polyamide, etc, can be selected by specific bearing design and application conditions.

Single arrangement and paired arrangement
Bore diameter d: 10~17mm

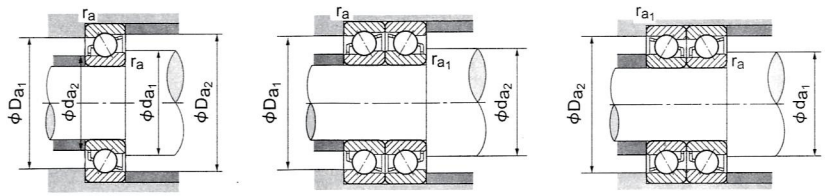



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 10 | 26 | 8 | 0.3 | 0.15 | 1.2 | **7000** | **7000DB** | **7000DF** | **7000DT** | 5000 | 8150 |
| | 26 | 8 | 0.3 | 0.15 | -1.9 | **7000C** | **7000CDB** | **7000CDF** | **7000CDT** | 5350 | 8700 |
| | 30 | 9 | 0.6 | 0.3 | 1.3 | **7200** | **7200DB** | **7200DF** | **7200DT** | 5400 | 8800 |
| | 30 | 9 | 0.6 | 0.3 | 3.9 | **7200B** | **7200BDB** | **7200BDF** | **7200BDT** | 5150 | 8350 |
| | 30 | 9 | 0.6 | 0.3 | -2.2 | **7200C** | **7300CDB** | **7200CDF** | **7200CDT** | 6950 | 11300 |
| | 35 | 11 | 0.6 | 0.3 | 1.0 | **7300** | **7300DB** | **7300DF** | **7300DT** | 9300 | 15100 |
| | 35 | 11 | 0.6 | 0.3 | 3.9 | **7300B** | **7300BDB** | **7200BDF** | **7200BDT** | 8950 | 14500 |
| | 35 | 11 | 0.6 | 0.3 | -2.8 | **7300C** | **7300CDB** | **7300CDF** | **7300CDT** | 9850 | 16000 |
| 12 | 28 | 8 | 0.3 | 0.15 | 1.7 | **7001** | **7001DB** | **7001DF** | **7001DT** | 5050 | 8800 |
| | 28 | 8 | 0.3 | 0.15 | -1.7 | **7001C** | **7001CDB** | **7001CDF** | **7001CDF** | 5800 | 9450 |
| | 32 | 10 | 0.6 | 0.3 | 1.4 | **7201** | **7201DB** | **7201DF** | **7201DT** | 7600 | 12400 |
| | 32 | 10 | 0.6 | 0.3 | 4.2 | **7201B** | **7201BDB** | **7201BDF** | **7201BDT** | 7200 | 11700 |
| | 32 | 10 | 0.6 | 0.3 | -2.5 | **7201C** | **7201CDB** | **7201CDF** | **7201CDT** | 7950 | 13000 |
| | 37 | 12 | 1 | 0.6 | 1.1 | **7301** | **7301DB** | **7301DF** | **7301DT** | 11200 | 18200 |
| | 37 | 12 | 1 | 0.6 | 4.3 | **7301B** | **7301BDB** | **7301BDF** | **7301BDT** | 10800 | 17500 |
| | 37 | 12 | 1 | 0.6 | -3.1 | **7301C** | **7301CDB** | **7301CDF** | **7301CDT** | 10800 | 17500 |
| 15 | 32 | 9 | 0.3 | 0.15 | 2.3 | **7002** | **7002DB** | **7002DF** | **7002DT** | 6150 | 9950 |
| | 32 | 9 | 0.3 | 0.16 | -1.8 | **7002C** | **7002CDB** | **7002CDF** | **7002CDT** | 6650 | 10800 |
| | 35 | 11 | 0.6 | 0.3 | 1.7 | **7202** | **7202DB** | **7202DF** | **7202DT** | 9050 | 14700 |
| | 35 | 11 | 0.6 | 0.3 | 5.0 | **7202B** | **7202BDB** | **7202BDF** | **7202BDT** | 8600 | 14000 |
| | 35 | 11 | 0.6 | 0.3 | -2.6 | **7202C** | **7202CDB** | **7202CDF** | **7202CDT** | 8700 | 14200 |
| | 42 | 13 | 1 | 0.6 | 1.7 | **7302** | **7302DB** | **7302DF** | **7302DT** | 13600 | 22000 |
| | 42 | 13 | 1 | 0.6 | 5.5 | **7302B** | **7302BDB** | **7302BDF** | **7302BDT** | 12800 | 21000 |
| | 42 | 13 | 1 | 0.6 | -3.1 | **7302C** | **7302CDB** | **7302CDF** | **7302CDT** | 13300 | 21700 |
| 17 | 35 | 10 | 0.3 | 0.15 | 2.5 | **7003** | **7003DB** | **7003DF** | **7003DT** | 6400 | 10400 |
| | 35 | 10 | 0.3 | 0.15 | -2.0 | **7003C** | **7003CDB** | **7003CDF** | **7003CDT** | 7000 | 11400 |
| | 40 | 12 | 0.6 | 0.3 | 2.2 | **7203** | **7203DB** | **7203DF** | **7203DT** | 11900 | 19400 |
| | 40 | 12 | 0.6 | 0.3 | 6.0 | **7203B** | **7203BDB** | **7203BDF** | **7203BDT** | 11300 | 18400 |
| | 40 | 12 | 0.6 | 0.3 | -2.7 | **7203C** | **7203CDB** | **7203CDF** | **7203CDT** | 10900 | 17800 |
| | 47 | 14 | 1 | 0.6 | 2.2 | **7303** | **7303DB** | **7203DF** | **7203DT** | 15900 | 25900 |
| | 47 | 14 | 1 | 0.6 | 6.4 | **7303B** | **7303BDB** | **7203BDF** | **7203BDT** | 15200 | 24700 |
| | 47 | 14 | 1 | 0.6 | -3.2 | **7303C** | **7303CDB** | **7303CDF** | **7303CDT** | 15900 | 25800 |

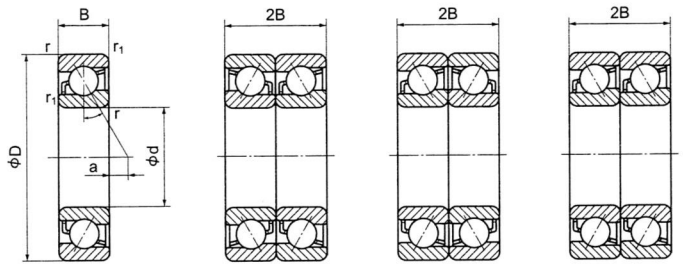







| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 2340 | 4650 | 23000 | 19000 | 31000 | 26000 | 12 | 12 | 24 | 25 | 0.3 | 0.15 | 0.022 |
| 2500 | 5000 | 44000 | 35000 | 61000 | 49000 | 12 | 12 | 24 | 25 | 0.3 | 0.15 | 0.022 |
| 2710 | 5400 | 22000 | 18000 | 30000 | 24000 | 15 | 12 | 25 | 27.4 | 0.6 | 0.3 | 0.034 |
| 2570 | 5150 | 19000 | 16000 | 28000 | 22000 | 15 | 12 | 25 | 27.4 | 0.6 | 0.3 | 0.034 |
| 3300 | 6650 | 40000 | 32000 | 55000 | 44000 | 15 | 15 | 25 | 27.4 | 0.6 | 0.3 | 0.034 |
| 4300 | 8600 | 20000 | 16000 | 26000 | 21000 | 15 | 12 | 30 | 32.4 | 0.6 | 0.3 | 0.055 |
| 4150 | 8250 | 18000 | 14000 | 24000 | 19000 | 15 | 12 | 30 | 32.4 | 0.6 | 0.3 | 0.055 |
| 4600 | 9250 | 36000 | 29000 | 49000 | 39000 | 15 | 15 | 30 | 32.4 | 0.6 | 0.3 | 0.055 |
| 2710 | 5700 | 22000 | 18000 | 29000 | 23000 | 14 | 14 | 26 | 27 | 0.3 | 0.15 | 0.024 |
| 2910 | 5800 | 40000 | 32000 | 55000 | 44000 | 14 | 14 | 26 | 27 | 0.3 | 0.15 | 0.024 |
| 3960 | 7950 | 20000 | 16000 | 27000 | 22000 | 17 | 14 | 27 | 29.4 | 0.6 | 0.3 | 0.040 |
| 3800 | 7550 | 17000 | 15000 | 24000 | 20000 | 17 | 14 | 27 | 29.4 | 0.6 | 0.3 | 0.040 |
| 3900 | 7750 | 36000 | 29000 | 50000 | 40000 | 17 | 17 | 27 | 29.4 | 0.6 | 0.3 | 0.040 |
| 5250 | 10500 | 18000 | 15000 | 24000 | 20000 | 18 | 15 | 31 | 33.4 | 1 | 0.6 | 0.063 |
| 5050 | 10100 | 16000 | 13000 | 22000 | 18000 | 18 | 15 | 31 | 33.4 | 1 | 0.6 | 0.063 |
| 4900 | 9800 | 33000 | 26000 | 45000 | 36000 | 18 | 15 | 31 | 33.4 | 1 | 0.6 | 0.063 |
| 3400 | 6850 | 18000 | 15000 | 24000 | 20000 | 17 | 17 | 30 | 31 | 0.3 | 0.15 | 0.035 |
| 3700 | 7450 | 34000 | 27000 | 47000 | 38000 | 17 | 17 | 30 | 31 | 0.3 | 0.15 | 0.035 |
| 4700 | 9400 | 17000 | 14000 | 23000 | 19000 | 20 | 17 | 30 | 32.4 | 0.6 | 0.3 | 0.048 |
| 4500 | 8950 | 16000 | 12000 | 21000 | 17000 | 20 | 17 | 30 | 32.4 | 0.6 | 0.3 | 0.048 |
| 4550 | 9150 | 32000 | 26000 | 44000 | 35000 | 20 | 20 | 30 | 32.4 | 0.6 | 0.3 | 0.048 |
| 7100 | 14200 | 16000 | 13000 | 21000 | 17000 | 21 | 18 | 36 | 38.4 | 1 | 0.3 | 0.085 |
| 6750 | 13500 | 14000 | 11000 | 19000 | 16000 | 21 | 18 | 36 | 38.4 | 1 | 0.6 | 0.085 |
| 6850 | 13700 | 20000 | 22000 | 39000 | 31000 | 21 | 21 | 36 | 38.4 | 1 | 0.6 | 0.085 |
| 3800 | 7650 | 17000 | 13000 | 22000 | 18000 | 19 | 19 | 33 | 34 | 0.3 | 0.15 | 0.045 |
| 4150 | 8300 | 31000 | 25000 | 42000 | 34000 | 19 | 19 | 33 | 34 | 0.3 | 0.15 | 0.045 |
| 6600 | 13200 | 16000 | 13000 | 21000 | 17000 | 22 | 19 | 35 | 37.4 | 0.6 | 0.3 | 0.070 |
| 6300 | 12600 | 14000 | 11000 | 19000 | 15000 | 22 | 19 | 35 | 37.4 | 0.6 | 0.3 | 0.070 |
| 5900 | 11800 | 28000 | 22000 | 39000 | 31000 | 22 | 22 | 35 | 37.4 | 0.6 | 0.3 | 0.070 |
| 8650 | 17300 | 14000 | 11000 | 19000 | 15000 | 23 | 21 | 41 | 43.4 | 1 | 0.6 | 0.120 |
| 8250 | 16500 | 13000 | 10000 | 17000 | 14000 | 23 | 21 | 41 | 43.4 | 1 | 0.6 | 0.120 |
| 8350 | 16700 | 25000 | 20000 | 34000 | 27000 | 23 | 23 | 41 | 43.4 | 1 | 0.6 | 0.120 |

Single arrangement and paired arrangement
Bore diameter d: 20~35mm

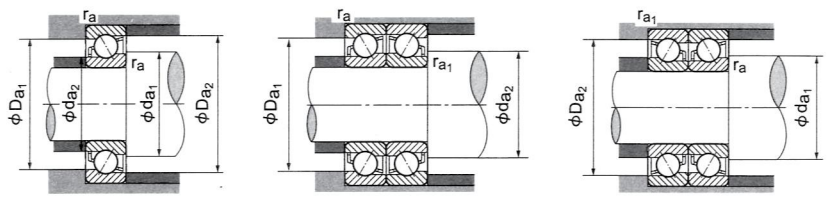



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 20 | 42 | 12 | 0.6 | 0.3 | 2.9 | **7004** | **7004DB** | **7004DF** | **7004DT** | 10300 | 16700 |
| | 42 | 12 | 0.6 | 0.3 | -2.4 | **7004C** | **7004CDB** | **7004CDF** | **7004CDT** | 11200 | 18200 |
| | 47 | 14 | 1 | 0.6 | 2.7 | **7204** | **7204DB** | **7204DF** | **7204DT** | 14500 | 23500 |
| | 47 | 14 | 1 | 0.6 | 7.1 | **7204B** | **7204BDB** | **7204BDF** | **7204BDT** | 13700 | 22300 |
| | 47 | 14 | 1 | 0.6 | -3.1 | **7204C** | **7204CDB** | **7204CDF** | **7204CDT** | 14700 | 23800 |
| | 52 | 15 | 1.1 | 0.6 | 2.9 | **7304** | **7304DB** | **7304DF** | **7304DT** | 18700 | 30500 |
| | 52 | 15 | 1.1 | 0.6 | 7.6 | **7304B** | **7304BDB** | **7304BDF** | **7304BDT** | 17800 | 28900 |
| | 52 | 15 | 1.1 | 0.6 | -3.2 | **7304C** | **7304CDB** | **7304CDF** | **7304CDT** | 18600 | 30000 |
| 25 | 47 | 12 | 0.6 | 0.3 | 4.4 | **7005** | **7005DB** | **7005DF** | **7005DT** | 11300 | 18400 |
| | 47 | 12 | 0.6 | 0.3 | -1.8 | **7005C** | **7005CDB** | **7005CDF** | **7005CDT** | 12900 | 21000 |
| | 52 | 15 | 1 | 0.6 | 3.6 | **7205** | **7205DB** | **7205DF** | **7205DT** | 16200 | 26300 |
| | 52 | 15 | 1 | 0.6 | 8.9 | **7205B** | **7205BDB** | **7205BDF** | **7205BDT** | 15300 | 24800 |
| | 52 | 15 | 1 | 0.6 | -3.1 | **7205C** | **7205CDB** | **7205CDF** | **7205CDT** | 16700 | 27100 |
| | 62 | 17 | 1.1 | 0.6 | 4.1 | **7305** | **7305DB** | **7305DF** | **7305DT** | 26400 | 43000 |
| | 62 | 17 | 1.1 | 0.6 | 9.8 | **7305B** | **7305BDB** | **7305BDF** | **7305BDT** | 25100 | 40500 |
| | 62 | 17 | 1.1 | 0.6 | -3.4 | **7305C** | **7305CDB** | **7305CDF** | **7305CDT** | 26600 | 43000 |
| 30 | 55 | 13 | 1 | 0.6 | 5.8 | **7006** | **7006DB** | **7006DF** | **7006DT** | 14500 | 23600 |
| | 55 | 13 | 1 | 0.6 | -1.6 | **7006C** | **7006CDB** | **7006CDF** | **7006CDT** | 16000 | 25900 |
| | 62 | 16 | 1 | 0.6 | 5.3 | **7206** | **7206DB** | **7206DF** | **7206DT** | 22500 | 36500 |
| | 62 | 13 | 1 | 0.6 | 11.3 | **7206B** | **7206BDB** | **7206BDF** | **7206BDT** | 21200 | 34500 |
| | 62 | 16 | 1 | 0.6 | -2.7 | **7206C** | **7206CDB** | **7206CDF** | **7206CDT** | 23200 | 37500 |
| | 72 | 19 | 1.1 | 0.6 | 5.2 | **7306** | **7306DB** | **7306DF** | **7306DT** | 33500 | 54500 |
| | 72 | 19 | 1.1 | 0.6 | 11.9 | **7306B** | **7306BDB** | **7306BDF** | **7306BDT** | 32000 | 52000 |
| | 72 | 19 | 1.1 | 0.6 | -3.6 | **7306C** | **7306CDB** | **7306CDF** | **7306CDT** | 32500 | 52500 |
| 35 | 62 | 14 | 1 | 0.6 | 7 | **7007** | **7007DB** | **7007DF** | **7007DT** | 17500 | 28500 |
| | 62 | 14 | 1 | 0.6 | -1.4 | **7007C** | **7007CDB** | **7007CDF** | **7007CDT** | 19300 | 31000 |
| | 72 | 17 | 1.1 | 0.6 | 6.9 | **7207** | **7207DB** | **7207DF** | **7207DT** | 29700 | 48000 |
| | 72 | 17 | 1.1 | 0.6 | 14.1 | **7207B** | **7207BDB** | **7207BDF** | **7207BDT** | 28000 | 45500 |
| | 72 | 17 | 1.1 | 0.6 | -2.8 | **7207C** | **7207CDB** | **7207CDF** | **7207CDT** | 30500 | 49500 |
| | 80 | 21 | 1.5 | 1 | 6.1 | **7307** | **7307DB** | **7307DF** | **7307DT** | 40000 | 65000 |
| | 80 | 21 | 1.5 | 1 | 13.7 | **7307B** | **7307BDB** | **7307BDF** | **7307BDT** | 37500 | 61500 |
| | 80 | 21 | 1.5 | 1 | -3.9 | **7307C** | **7307CDB** | **7307CDF** | **7307CDT** | 40500 | 66000 |

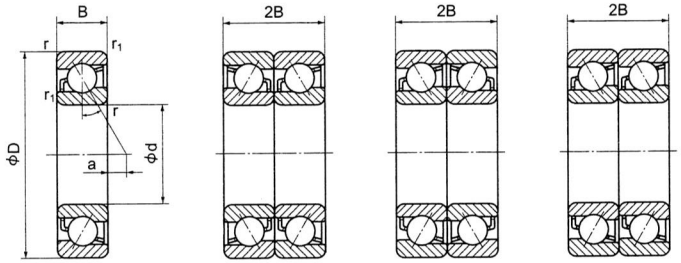







| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 6050 | 12100 | 15000 | 12000 | 20000 | 16000 | 24 | 24 | 38 | 40 | 0.6 | 0.3 | 0.079 |
| 6600 | 13200 | 26000 | 21000 | 35000 | 28000 | 24 | 24 | 38 | 40 | 0.6 | 0.3 | 0.079 |
| 8300 | 16600 | 13000 | 10000 | 18000 | 14000 | 26 | 23 | 41 | 43.4 | 1 | 0.6 | 0.110 |
| 7850 | 15700 | 11000 | 9500 | 16000 | 13000 | 26 | 23 | 41 | 43.4 | 1 | 0.6 | 0.110 |
| 8150 | 16300 | 24000 | 19000 | 33000 | 26000 | 26 | 26 | 41 | 43.4 | 1 | 0.6 | 0.110 |
| 10400 | 20800 | 13000 | 10000 | 17000 | 13000 | 27 | 25 | 45 | 47 | 1 | 0.6 | 0.150 |
| 9900 | 19800 | 10000 | 9000 | 15000 | 12000 | 27 | 25 | 45 | 47 | 1 | 0.6 | 0.150 |
| 10000 | 20000 | 22000 | 18000 | 31000 | 25000 | 27 | 27 | 45 | 47 | 1 | 0.6 | 0.150 |
| 7400 | 14800 | 13000 | 10000 | 17000 | 13000 | 29 | 29 | 43 | 45 | 0.6 | 0.3 | 0.091 |
| 8650 | 17300 | 22000 | 18000 | 31000 | 25000 | 29 | 29 | 43 | 45 | 0.6 | 0.3 | 0.091 |
| 10200 | 20500 | 12000 | 9500 | 15000 | 12000 | 31 | 28 | 46 | 48.4 | 1 | 0.6 | 0.135 |
| 9700 | 19400 | 9500 | 8000 | 14000 | 11000 | 31 | 28 | 46 | 48.4 | 1 | 0.6 | 0.135 |
| 10300 | 20700 | 21000 | 17000 | 29000 | 23000 | 31 | 31 | 46 | 48.4 | 1 | 0.6 | 0.135 |
| 15800 | 31500 | 10000 | 8500 | 14000 | 111000 | 32 | 30 | 55 | 57 | 1 | 0.6 | 0.245 |
| 15100 | 30000 | 8500 | 7300 | 12000 | 10000 | 32 | 30 | 55 | 57 | 1 | 0.6 | 0.245 |
| 15500 | 31000 | 18000 | 14000 | 25000 | 20000 | 32 | 32 | 55 | 57 | 1 | 0.6 | 0.245 |
| 10100 | 20300 | 12000 | 8500 | 14000 | 11000 | 35 | 35 | 50 | 52 | 1 | 0.6 | 0.135 |
| 11100 | 24000 | 19000 | 15000 | 26000 | 21000 | 35 | 35 | 50 | 52 | 1 | 0.6 | 0.135 |
| 14800 | 29600 | 10000 | 8000 | 13000 | 10000 | 36 | 33 | 56 | 58.4 | 1 | 0.6 | 0.210 |
| 13900 | 27900 | 8500 | 7000 | 12000 | 9500 | 36 | 33 | 56 | 58.4 | 1 | 0.6 | 0.210 |
| 14900 | 29700 | 18000 | 14000 | 24000 | 19500 | 36 | 36 | 56 | 58.4 | 1 | 0.6 | 0.210 |
| 22400 | 44500 | 9000 | 7000 | 12000 | 9500 | 37 | 35 | 65 | 67 | 1 | 0.6 | 0.360 |
| 21000 | 42000 | 7500 | 61000 | 10000 | 8500 | 37 | 35 | 65 | 67 | 1 | 0.6 | 0.360 |
| 20400 | 40500 | 16000 | 13000 | 22000 | 18000 | 37 | 37 | 65 | 67 | 1 | 0.6 | 0.360 |
| 12600 | 25200 | 9500 | 7500 | 13000 | 10000 | 40 | 40 | 57 | 59 | 1 | 0.6 | 0.1870 |
| 13700 | 27500 | 16000 | 13000 | 23000 | 18000 | 40 | 40 | 57 | 59 | 1 | 0.6 | 0.170 |
| 20000 | 40000 | 8500 | 7000 | 11000 | 9500 | 42 | 40 | 65 | 67 | 1 | 0.6 | 0.295 |
| 19000 | 38000 | 7500 | 6000 | 10000 | 8000 | 42 | 40 | 65 | 67 | 1 | 0.6 | 0.295 |
| 20100 | 40000 | 15000 | 12000 | 21000 | 17000 | 42 | 40 | 65 | 67 | 1 | 0.6 | 0.295 |
| 26300 | 52500 | 8000 | 6300 | 10000 | 8500 | 44 | 40 | 71 | 74.6 | 1.5 | 1 | 0.475 |
| 24900 | 49500 | 7000 | 5500 | 9500 | 7500 | 44 | 40 | 71 | 74.6 | 1.5 | 1 | 0.475 |
| 26000 | 52000 | 14000 | 11000 | 19000 | 15000 | 44 | 44 | 71 | 74.6 | 1.5 | 1 | 0.475 |

Single arrangement and paired arrangement
Bore diameter d: 40~55mm

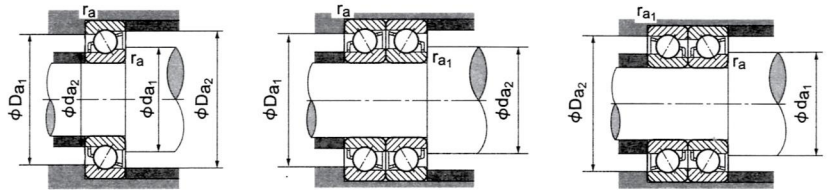



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 40 | 68 | 15 | 1 | 0.6 | 8.2 | **7008** | **7008DB** | **7008DF** | **7008DT** | 18800 | 30500 |
| | 68 | 15 | 1 | 0.6 | -1.3 | **7008C** | **7008CDB** | **7008CDF** | **7008CDT** | 20700 | 33500 |
| | 80 | 18 | 1.1 | 0.6 | 8.3 | **7208** | **7208DB** | **7208DF** | **7208DT** | 35000 | 57500 |
| | 80 | 18 | 1.1 | 0.6 | 16.2 | **7208B** | **7208BDB** | **7208BDF** | **7208BDT** | 33000 | 54000 |
| | 80 | 18 | 1.1 | 0.6 | -2.1 | **7208C** | **7208CDB** | **7208CDF** | **7208CDT** | 36500 | 59500 |
| | 90 | 23 | 1.5 | 1 | 7.3 | **7308** | **7308DB** | **7308DF** | **7308DT** | 49000 | 79000 |
| | 90 | 23 | 1.5 | 1 | 15.8 | **7308B** | **7308BDB** | **7308BDF** | **7308BDT** | 46000 | 75000 |
| | 90 | 23 | 1.5 | 1 | -4.0 | **7308C** | **7308CDB** | **7308CDF** | **7308CDT** | 49500 | 80500 |
| 45 | 75 | 16 | 1 | 0.6 | 9.3 | **7009** | **7009DB** | **7009DF** | **7009DT** | 22200 | 36000 |
| | 75 | 16 | 1 | 0.6 | -1.1 | **7009C** | **7009CDB** | **7009CDF** | **7009CDT** | 24600 | 40000 |
| | 85 | 19 | 1.1 | 0.6 | 9.3 | **7209** | **7209DB** | **7209DF** | **7209DT** | 39500 | 64500 |
| | 85 | 19 | 1.1 | 0.6 | 17.8 | **7209B** | **7209BDB** | **7209BDF** | **7209BDT** | 37000 | 60500 |
| | 85 | 19 | 1.1 | 0.6 | -2.0 | **7209C** | **7209CDB** | **7209CDF** | **7209CDT** | 41000 | 66500 |
| | 100 | 25 | 1.5 | 1 | 8.4 | **7309** | **7309DB** | **7309DF** | **7309DT** | 63500 | 103000 |
| | 100 | 25 | 1.5 | 1 | 18.0 | **7309B** | **7309BDB** | **7309BDF** | **7309BDT** | 60000 | 97500 |
| | 100 | 25 | 1.5 | 1 | -4.1 | **7309C** | **7309CDB** | **7309CDF** | **7309CDT** | 63500 | 10300 |
| 50 | 80 | 16 | 1 | 0.6 | 10.8 | **7010** | **7010DB** | **7010DF** | **7010DT** | 23600 | 38500 |
| | 80 | 16 | 1 | 0.6 | -0.5 | **7010C** | **7010CDB** | **7010CDF** | **7010CDT** | 26200 | 42500 |
| | 90 | 20 | 1.1 | 0.6 | 10.2 | **7210** | **7210DB** | **7210DF** | **7210DT** | 41000 | 67000 |
| | 90 | 20 | 1.1 | 0.6 | 19.4 | **7210B** | **7210BDB** | **7210BDF** | **7210BDT** | 38500 | 63000 |
| | 90 | 20 | 1.1 | 0.6 | -1.9 | **7210C** | **7210CDB** | **7210CDF** | **7210CDT** | 43000 | 70000 |
| | 110 | 27 | 2 | 1 | 9.6 | **7310** | **7310DB** | **7310DF** | **7310DT** | 74000 | 121000 |
| | 110 | 27 | 2 | 1 | 20.1 | **7310B** | **7310BDB** | **7310BDF** | **7310BDT** | 70500 | 114000 |
| | 110 | 27 | 2 | 1 | -4.3 | **7310C** | **7310CDB** | **7310CDF** | **7310CDT** | 75500 | 122000 |
| 55 | 90 | 18 | 1.1 | 0.6 | 11.9 | **7011** | **7011DB** | **7011DF** | **7011DT** | 31000 | 50500 |
| | 90 | 18 | 1.1 | 0.6 | -0.6 | **7011C** | **7011CDB** | **7011CDF** | **7011CDT** | 34500 | 56000 |
| | 100 | 21 | 1.5 | 1 | 11.9 | **7211** | **7211DB** | **7211DF** | **7211DT** | 51000 | 83000 |
| | 100 | 21 | 1.5 | 1 | 22.1 | **7211B** | **7211BDB** | **7211BDF** | **7211BDT** | 48000 | 78000 |
| | 100 | 21 | 1.5 | 1 | -1.6 | **7211C** | **7211CDB** | **7211CDF** | **7211CDT** | 53000 | 86500 |
| | 120 | 29 | 2 | 1 | 10.8 | **7311** | **7311DB** | **7311DF** | **7311DT** | 85500 | 139000 |
| | 120 | 29 | 2 | 1 | 22.3 | **7311B** | **7311BDB** | **7311BDF** | **7311BDT** | 81000 | 132000 |
| | 120 | 29 | 2 | 1 | -4.4 | **7311C** | **7311CDB** | **7311CDF** | **7311CDT** | 87000 | 142000 |

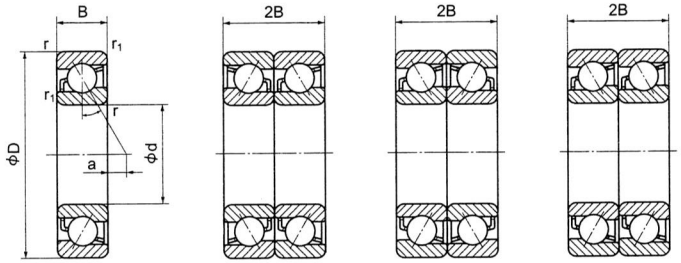







| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 14500 | 29000 | 8500 | 6600 | 11000 | 9000 | 45 | 45 | 63 | 65 | 1 | 0.6 | 0.210 |
| 16000 | 32000 | 15000 | 12000 | 20000 | 16000 | 45 | 45 | 63 | 65 | 1 | 0.6 | 0.210 |
| 25200 | 50500 | 7500 | 6000 | 10000 | 8000 | 47 | 45 | 73 | 75 | 1 | 0.6 | 0.380 |
| 23700 | 47500 | 6700 | 5300 | 9200 | 7200 | 47 | 45 | 73 | 75 | 1 | 0.6 | 0.380 |
| 25400 | 50500 | 13000 | 10000 | 18000 | 14000 | 47 | 47 | 73 | 75 | 1 | 0.6 | 0.380 |
| 33000 | 66000 | 7000 | 5500 | 9200 | 7500 | 49 | 45 | 81 | 84.6 | 1.5 | 1 | 0.655 |
| 31000 | 62500 | 6300 | 5000 | 8500 | 6700 | 49 | 45 | 81 | 84.6 | 1.5 | 1 | 0.655 |
| 32500 | 65500 | 12000 | 9600 | 17000 | 13000 | 49 | 49 | 81 | 84.6 | 1.5 | 1 | 0.655 |
| 17600 | 35000 | 7500 | 6000 | 10000 | 8000 | 50 | 50 | 70 | 72 | 1 | 0.6 | 0.265 |
| 19400 | 39000 | 13000 | 10000 | 18000 | 14000 | 50 | 50 | 70 | 72 | 1 | 0.6 | 0.265 |
| 28800 | 57500 | 7000 | 5500 | 9200 | 7500 | 52 | 50 | 78 | 80 | 1 | 0.6 | 0.430 |
| 27100 | 54000 | 6300 | 5000 | 8500 | 6700 | 52 | 50 | 78 | 80 | 1 | 0.6 | 0.430 |
| 29000 | 58000 | 12000 | 9600 | 17000 | 13000 | 52 | 52 | 78 | 80 | 1 | 0.6 | 0.430 |
| 43500 | 87000 | 6300 | 5000 | 8500 | 6700 | 54 | 50 | 91 | 94.6 | 1.5 | 1 | 0.875 |
| 41500 | 82500 | 5600 | 4500 | 7500 | 6000 | 54 | 50 | 91 | 94.6 | 1.5 | 1 | 0.875 |
| 43500 | 87000 | 11000 | 8800 | 15000 | 12000 | 54 | 54 | 91 | 94.6 | 1.5 | 1 | 0.875 |
| 20000 | 40000 | 7000 | 5500 | 9200 | 7500 | 55 | 55 | 75 | 77 | 1 | 0.6 | 0.285 |
| 22000 | 44000 | 12000 | 9600 | 17000 | 13000 | 55 | 55 | 75 | 77 | 1 | 0.6 | 0.285 |
| 31500 | 63000 | 63000 | 5300 | 8500 | 6700 | 57 | 55 | 83 | 85 | 1 | 0.6 | 0.485 |
| 29600 | 59000 | 5600 | 4500 | 7500 | 6000 | 57 | 55 | 83 | 85 | 1 | 0.6 | 0.485 |
| 32000 | 63500 | 11000 | 8800 | 16000 | 13000 | 57 | 57 | 83 | 85 | 1 | 0.6 | 0.485 |
| 52000 | 104000 | 5600 | 4500 | 7500 | 6000 | 60 | 56 | 100 | 104 | 2 | 1 | 1.14 |
| 49500 | 98500 | 5000 | 4000 | 6700 | 5300 | 60 | 56 | 100 | 104 | 2 | 1 | 1.14 |
| 51000 | 102000 | 10000 | 8000 | 14000 | 11000 | 60 | 60 | 100 | 104 | 2 | 1 | 1.14 |
| 26200 | 52500 | 6300 | 5000 | 8500 | 6700 | 61 | 61 | 84 | 86 | 1 | 0.6 | 0.420 |
| 28800 | 57500 | 11000 | 8800 | 15000 | 12000 | 61 | 61 | 84 | 86 | 1 | 0.6 | 0.420 |
| 39500 | 79000 | 6000 | 4500 | 7500 | 6300 | 64 | 60 | 91 | 94.6 | 1.5 | 1 | 0.635 |
| 37500 | 74500 | 5300 | 4000 | 7000 | 5500 | 64 | 60 | 91 | 94.6 | 1.5 | 1 | 0.635 |
| 40000 | 80000 | 10000 | 8000 | 14000 | 11000 | 64 | 64 | 91 | 94.6 | 1.5 | 1 | 0.635 |
| 61500 | 123000 | 5000 | 4000 | 7000 | 5500 | 65 | 61 | 110 | 114 | 2 | 1 | 1.45 |
| 58000 | 116000 | 4500 | 3500 | 6200 | 5000 | 65 | 61 | 110 | 114 | 2 | 1 | 1.45 |
| 60000 | 121000 | 9100 | 7300 | 13000 | 1000 | 65 | 65 | 110 | 114 | 2 | 1 | 1.45 |

Single arrangement and paired arrangement
Bore diameter d: 60~75mm

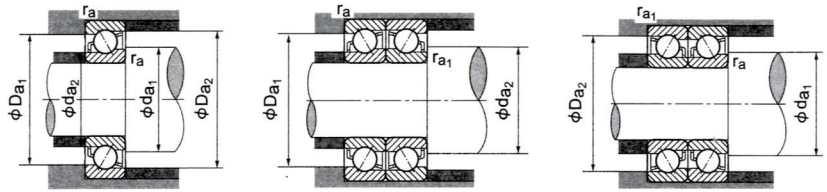



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 60 | 95 | 18 | 1.1 | 0.6 | 13.4 | **7012** | **7012DB** | **7012DF** | **7012DT** | 32000 | 51500 |
| | 95 | 18 | 1.1 | 0.6 | -0.1 | **7012C** | **7012CDB** | **7012CDF** | **7012CDT** | 35500 | 57500 |
| | 110 | 22 | 1.5 | 1 | 13.5 | **7212** | **7212DB** | **7212DF** | **7212DT** | 62000 | 100000 |
| | 110 | 22 | 1.5 | 1 | 24.7 | **7212B** | **7212BDB** | **7212BDF** | **7212BDT** | 58000 | 94000 |
| | 110 | 22 | 1.5 | 1 | -1.2 | **7212C** | **7212CDB** | **7212CDF** | **7212CDT** | 64500 | 105000 |
| | 130 | 31 | 2.1 | 1.1 | 11.9 | **7312** | **7312DB** | **7312DF** | **7312DT** | 98000 | 159000 |
| | 130 | 31 | 2.1 | 1.1 | 24.4 | **7312B** | **7312BDB** | **7312BDF** | **7312BDT** | 92500 | 151000 |
| | 130 | 31 | 2.1 | 1.1 | -4.5 | **7312C** | **7312CDB** | **7312CDF** | **7312CDT** | 99500 | 162000 |
| 65 | 100 | 18 | 1.1 | 0.6 | 14.8 | **7013** | **7013DB** | **7013DF** | **7013DT** | 33500 | 54500 |
| | 100 | 18 | 1.1 | 0.6 | 0.5 | **7013C** | **7013CDB** | **7013CDF** | **7013CDT** | 37500 | 60500 |
| | 120 | 23 | 1.5 | 1 | 15.2 | **7213** | **7213DB** | **7213DF** | **7213DT** | 70000 | 114000 |
| | 120 | 23 | 1.5 | 1 | 27.4 | **7213B** | **7213BDB** | **7213BDF** | **7213BDT** | 66000 | 107000 |
| | 120 | 23 | 1.5 | 1 | -0.8 | **7213C** | **7213CDB** | **7213CDF** | **7213CDT** | 73500 | 120000 |
| | 140 | 33 | 2.1 | 1.1 | 13.1 | **7313** | **7313DB** | **7313DF** | **7313DT** | 111000 | 180000 |
| | 140 | 33 | 2.1 | 1.1 | 26.6 | **7313B** | **7313BDB** | **7313BDF** | **7313BDT** | 105000 | 170000 |
| | 140 | 33 | 2.1 | 1.1 | -4.7 | **7313C** | **7313CDB** | **7313CDF** | **7313CDT** | 113000 | 183000 |
| 70 | 110 | 20 | 1.1 | 0.6 | 16.0 | **7014** | **7014DB** | **7014DF** | **7014DT** | 42500 | 69000 |
| | 110 | 20 | 1.1 | 0.6 | 0.4 | **7014C** | **7014CDB** | **7014CDF** | **7014CDT** | 47000 | 76500 |
| | 125 | 24 | 1.5 | 1 | 16.1 | **7214** | **7214DB** | **7214DF** | **7214DT** | 76500 | 124000 |
| | 125 | 24 | 1.5 | 1 | 29.0 | **7214B** | **7214BDB** | **7214BDF** | **7214BDT** | 71500 | 116000 |
| | 125 | 24 | 1.5 | 1 | -0.7 | **7214C** | **7214CDB** | **7214CDF** | **7214CDT** | 80000 | 130000 |
| | 150 | 35 | 2.1 | 1.1 | 14.3 | **7314** | **7314DB** | **7314DF** | **7314DT** | 125000 | 203000 |
| | 150 | 35 | 2.1 | 1.1 | 28.7 | **7314B** | **7314BDB** | **7314BDF** | **7314BDT** | 118000 | 191000 |
| | 150 | 35 | 2.1 | 1.1 | -4.8 | **7314C** | **7314CDB** | **7314CDF** | **7314CDT** | 127000 | 206000 |
| 75 | 115 | 20 | 1.1 | 0.6 | 17.4 | **7015** | **7015DB** | **7015DF** | **7015DT** | 43500 | 70500 |
| | 1150 | 20 | 1.1 | 0.6 | 1.0 | **7015C** | **7015CDB** | **7015CDF** | **7015CDT** | 48500 | 78500 |
| | 130 | 25 | 1.5 | 1 | 17.1 | **7215** | **7215DB** | **7215DF** | **7215DT** | 79000 | 129000 |
| | 130 | 25 | 1.5 | 1 | 30.6 | **7215B** | **7215BDB** | **7215BDF** | **7215BDT** | 74000 | 12000 |
| | 130 | 25 | 1.5 | 1 | -0.7 | **7215C** | **7215CDB** | **7215CDF** | **7215CDT** | 83500 | 135000 |
| | 160 | 37 | 2.1 | 1.1 | 15.4 | **7315** | **7315DB** | **7315DF** | **7315DT** | 136000 | 221000 |
| | 160 | 37 | 2.1 | 1.1 | 30.9 | **7315B** | **7315BDB** | **7315BDF** | **7315BDT** | 128000 | 208000 |
| | 160 | 37 | 2.1 | 1.1 | -4.9 | **7315C** | **7315CDB** | **7315CDF** | **7315CDT** | 138000 | 225000 |

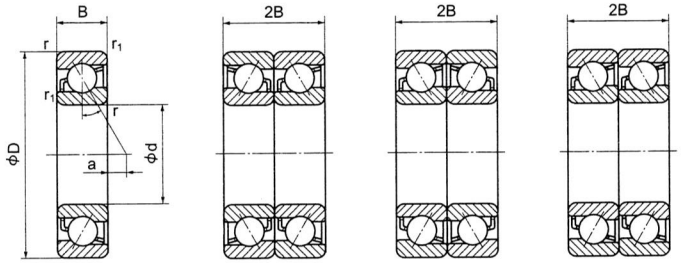







| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 28000 | 56000 | 6000 | 4500 | 7600 | 6200 | 66 | 66 | 89 | 91 | 1 | 0.6 | 0.450 |
| 30500 | 61500 | 10000 | 8000 | 14000 | 11000 | 66 | 66 | 89 | 91 | 1 | 0.6 | 0.450 |
| 48500 | 97500 | 5300 | 4300 | 7100 | 5600 | 69 | 65 | 101 | 104.6 | 1.5 | 1 | 0.820 |
| 46000 | 92000 | 4800 | 3800 | 6300 | 5000 | 69 | 65 | 101 | 104.6 | 1.5 | 1 | 0.820 |
| 49500 | 98500 | 9400 | 7500 | 13000 | 10000 | 69 | 69 | 101 | 104.6 | 1.5 | 1 | 0.820 |
| 71500 | 148000 | 4800 | 3800 | 6300 | 5000 | 72 | 67 | 115 | 123 | 2 | 1 | 1.81 |
| 67500 | 135000 | 4300 | 3400 | 5500 | 4500 | 72 | 67 | 118 | 123 | 2 | 1 | 1.81 |
| 70000 | 140000 | 8400 | 6700 | 12000 | 9600 | 72 | 72 | 118 | 123 | 2 | 1 | 1.81 |
| 31000 | 62500 | 5600 | 4300 | 7100 | 6000 | 71 | 71 | 94 | 96 | 1 | 0.6 | 0.470 |
| 34500 | 69000 | 9700 | 7800 | 13000 | 10000 | 71 | 71 | 94 | 96 | 1 | 0.6 | 0.470 |
| 57800 | 116000 | 4900 | 3900 | 6500 | 5300 | 74 | 70 | 111 | 114.6 | 1.5 | 1 | 1.02 |
| 54500 | 109000 | 4300 | 3400 | 5600 | 4600 | 74 | 70 | 111 | 114.6 | 1.5 | 1 | 1.02 |
| 59000 | 118000 | 8600 | 6900 | 12000 | 9600 | 74 | 74 | 111 | 114.6 | 1.5 | 1 | 1.02 |
| 82000 | 165000 | 4400 | 3600 | 5800 | 4700 | 77 | 72 | 128 | 133 | 2 | 1 | 2.22 |
| 77500 | 155000 | 4000 | 3200 | 5300 | 4200 | 77 | 72 | 128 | 133 | 2 | 1 | 2.22 |
| 81000 | 162000 | 7800 | 6200 | 11000 | 8800 | 77 | 77 | 128 | 133 | 2 | 1 | 2.22 |
| 39500 | 78500 | 5000 | 4000 | 6600 | 5300 | 76 | 76 | 104 | 106 | 1 | 0.6 | 0.660 |
| 43000 | 86500 | 8900 | 7100 | 12000 | 9600 | 76 | 76 | 104 | 106 | 1 | 0.6 | 0.660 |
| 63500 | 127000 | 4500 | 3800 | 6300 | 5000 | 79 | 75 | 116 | 119.6 | 1.5 | 1 | 1.12 |
| 59500 | 120000 | 4300 | 3200 | 5600 | 4500 | 79 | 75 | 116 | 119.6 | 1.5 | 1 | 1.12 |
| 65000 | 130000 | 8200 | 6600 | 11000 | 8800 | 79 | 79 | 116 | 119.6 | 1.5 | 1 | 1.12 |
| 94000 | 188000 | 4000 | 3200 | 5300 | 4300 | 82 | 77 | 138 | 143 | 2 | 1 | 2.70 |
| 88500 | 177000 | 3600 | 2900 | 4800 | 3900 | 82 | 77 | 138 | 143 | 2 | 1 | 2.70 |
| 92500 | 18500 | 7300 | 5800 | 10000 | 8000 | 82 | 82 | 138 | 143 | 2 | 1 | 2.70 |
| 41500 | 86000 | 4800 | 3800 | 6300 | 5000 | 81 | 81 | 109 | 111 | 1 | 0.6 | 0.695 |
| 46000 | 92000 | 8400 | 6700 | 12000 | 9600 | 81 | 81 | 109 | 111 | 1 | 0.6 | 0.695 |
| 68500 | 137000 | 4300 | 3400 | 5800 | 4700 | 84 | 80 | 121 | 124.6 | 1.5 | 1 | 1.23 |
| 64000 | 128000 | 4000 | 3200 | 5300 | 4300 | 84 | 80 | 121 | 124.6 | 1.5 | 1 | 1.23 |
| 70000 | 141000 | 7800 | 6200 | 11000 | 8800 | 84 | 84 | 121 | 124.6 | 1.5 | 1 | 1.23 |
| 106000 | 212000 | 3800 | 3000 | 5000 | 4000 | 87 | 82 | 148 | 153 | 2 | 1 | 3.15 |
| 100000 | 200000 | 3400 | 2700 | 4500 | 3600 | 87 | 82 | 148 | 153 | 2 | 1 | 3.15 |
| 104000 | 209000 | 6800 | 5400 | 9400 | 7500 | 87 | 87 | 148 | 153 | 2 | 1 | 3.15 |

Single arrangement and paired arrangement
Bore diameter d: 80~95mm

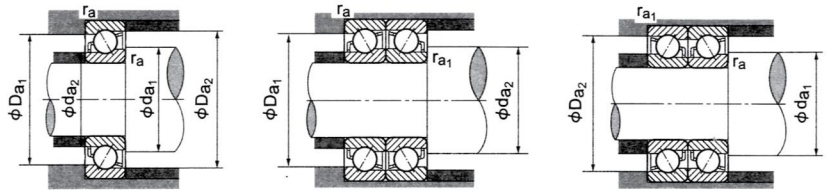



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 80 | 125 | 22 | 1.1 | 0.6 | 18.6 | **7016** | **7016DB** | **7016DF** | **7016DT** | 53500 | 86500 |
| | 125 | 22 | 1.1 | 0.6 | 0.9 | **7016C** | **7016CDB** | **7016CDF** | **7016CDT** | 59000 | 96000 |
| | 140 | 26 | 2 | 1 | 18.8 | **7216** | **7216DB** | **7216DF** | **7216DT** | 89000 | 145000 |
| | 140 | 26 | 2 | 1 | 33.2 | **7216B** | **7216BDB** | **7216BDF** | **7216BDT** | 83500 | 135000 |
| | 140 | 26 | 2 | 1 | -0.3 | **7216C** | **7216CDB** | **7216CDF** | **7216CDT** | 93500 | 152000 |
| | 170 | 39 | 2.1 | 1.1 | 16.6 | **7316** | **7316DB** | **7316DF** | **7316DT** | 147000 | 239000 |
| | 170 | 39 | 2.1 | 1.1 | 33.0 | **7316B** | **7316BDB** | **7316BDF** | **7316BDT** | 139000 | 226000 |
| | 170 | 39 | 2.1 | 1.1 | -5.1 | **7316C** | **7316CDB** | **7316CDF** | **7316CDT** | 150000 | 243000 |
| 85 | 130 | 22 | 1.1 | 0.6 | 20 | **7017** | **7017DB** | **7017DF** | **7017DT** | 54500 | 88500 |
| | 130 | 22 | 1.1 | 0.6 | 1.4 | **7017C** | **7017CDB** | **7017CDF** | **7017CDT** | 60500 | 98500 |
| | 150 | 28 | 2 | 1 | 19.9 | **7217** | **7217DB** | **7217DF** | **7217DT** | 103000 | 167000 |
| | 150 | 28 | 2 | 1 | 35.4 | **7217B** | **7217BDB** | **7217BDF** | **7217BDT** | 96500 | 159000 |
| | 150 | 28 | 2 | 1 | -0.4 | **7217C** | **7217CDB** | **7217CDF** | **7217CDT** | 100000 | 163000 |
| | 180 | 41 | 3 | 1.1 | 17.7 | **7317** | **7317DB** | **7317DF** | **7317DT** | 159000 | 258000 |
| | 180 | 41 | 3 | 1.1 | 35.2 | **7317B** | **7317BDB** | **7317BDF** | **7317BDT** | 150000 | 244000 |
| | 180 | 41 | 3 | 1.1 | -5.2 | **7317C** | **7317CDB** | **7317CDF** | **7317CDT** | 162000 | 263000 |
| 90 | 140 | 24 | 1.5 | 1 | 21.2 | **7018** | **7018DB** | **7018DF** | **7018DT** | 65000 | 106000 |
| | 140 | 24 | 1.5 | 1 | 1.3 | **7018C** | **7018CDB** | **7018CDF** | **7018CDT** | 72000 | 117000 |
| | 160 | 30 | 2 | 1 | 21.1 | **7218** | **7218DB** | **7218DF** | **7218DT** | 118000 | 191000 |
| | 160 | 30 | 2 | 1 | 37.5 | **7218B** | **7218BDB** | **7218BDF** | **7218BDT** | 110000 | 179000 |
| | 160 | 30 | 2 | 1 | -0.6 | **7218C** | **7218CDB** | **7218CDF** | **7218CDT** | 124000 | 201000 |
| | 190 | 43 | 3 | 1.1 | 18.9 | **7318** | **7318DB** | **7318DF** | **7318DT** | 171000 | 277000 |
| | 190 | 43 | 3 | 1.1 | 37.3 | **7318B** | **7318BDB** | **7318BDF** | **7318BDT** | 161000 | 262000 |
| | 190 | 43 | 3 | 1.1 | -5.3 | **7318C** | **7318CDB** | **7318CDF** | **7318CDT** | 174000 | 282000 |
| 95 | 145 | 24 | 1.5 | 1 | 22.6 | **7019** | **7019DB** | **7019DF** | **7019DT** | 67000 | 109000 |
| | 145 | 24 | 1.5 | 1 | 1.9 | **7019C** | **7019CDB** | **7019CDF** | **7019CDT** | 74000 | 120000 |
| | 170 | 32 | 2.1 | 1.1 | 22.2 | **7219** | **7219DB** | **7219DF** | **7219DT** | 126000 | 205000 |
| | 170 | 32 | 2.1 | 1.1 | 39.7 | **7219B** | **7219BDB** | **7219BDF** | **7219BDT** | 120000 | 195000 |
| | 170 | 32 | 2.1 | 1.1 | -0.7 | **7219C** | **7219CDB** | **7219CDF** | **7219CDT** | 133000 | 217000 |
| | 200 | 45 | 3 | 1.1 | 20.1 | **7319** | **7319DB** | **7319DF** | **7319DT** | 1833000 | 297000 |
| | 200 | 45 | 3 | 1.1 | 39.5 | **7319B** | **7319BDB** | **7319BDF** | **7319BDT** | 172000 | 280000 |
| | 200 | 45 | 3 | 1.1 | -5.5 | **7319C** | **7319CDB** | **7319CDF** | **7319CDT** | 186000 | 300000 |

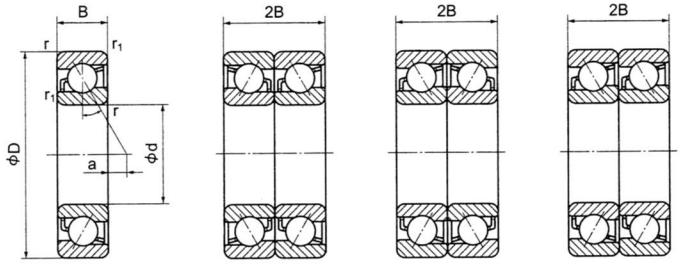







| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 50500 | 101000 | 4400 | 3500 | 5800 | 4600 | 86 | 86 | 119 | 121 | 1 | 0.6 | 0.925 |
| 55500 | 111000 | 7800 | 6200 | 11000 | 8800 | 86 | 86 | 119 | 121 | 1 | 0.6 | 0.925 |
| 76500 | 153000 | 4000 | 3200 | 5400 | 4300 | 90 | 86 | 130 | 134 | 2 | 1 | 1.50 |
| 71500 | 143000 | 3600 | 2800 | 5000 | 4000 | 90 | 86 | 130 | 134 | 2 | 1 | 1.50 |
| 78000 | 156000 | 7300 | 5800 | 10000 | 8000 | 90 | 90 | 130 | 134 | 2 | 1 | 1.50 |
| 119000 | 238000 | 3600 | 2800 | 4800 | 3800 | 92 | 87 | 158 | 163 | 2 | 1 | 4.18 |
| 112000 | 225000 | 3200 | 2500 | 4200 | 3400 | 92 | 87 | 158 | 163 | 2 | 1 | 4.18 |
| 117000 | 235000 | 6400 | 5100 | 8800 | 7000 | 92 | 92 | 158 | 163 | 2 | 1 | 4.18 |
| 53500 | 107000 | 4100 | 3300 | 5500 | 4400 | 91 | 91 | 124 | 126 | 1 | 0.6 | 0.960 |
| 59000 | 118000 | 7400 | 5900 | 10000 | 8000 | 91 | 91 | 124 | 126 | 1 | 0.6 | 0.960 |
| 89500 | 179000 | 3800 | 3000 | 5000 | 4000 | 95 | 91 | 140 | 144 | 2 | 1 | 1.87 |
| 83500 | 168000 | 3400 | 2600 | 4500 | 3800 | 95 | 91 | 140 | 144 | 2 | 1 | 1.87 |
| 85000 | 170000 | 6800 | 5400 | 9400 | 7500 | 95 | 95 | 140 | 144 | 2 | 1 | 1.87 |
| 13000 | 266000 | 3400 | 2600 | 4500 | 3600 | 99 | 92 | 166 | 173 | 2.5 | 1 | 4.90 |
| 125000 | 251000 | 3000 | 2400 | 4000 | 3200 | 99 | 92 | 166 | 173 | 2.5 | 1 | 4.90 |
| 131000 | 262000 | 6000 | 4800 | 8300 | 6600 | 99 | 99 | 166 | 173 | 2.5 | 1 | 4.90 |
| 63000 | 126000 | 3800 | 3200 | 5200 | 4200 | 97 | 97 | 133 | 135.6 | 1.5 | 1 | 1.26 |
| 69500 | 139000 | 7000 | 5600 | 9600 | 7800 | 97 | 97 | 133 | 135.6 | 1.5 | 1 | 1.26 |
| 103000 | 206000 | 3500 | 2800 | 4700 | 3700 | 100 | 96 | 150 | 154 | 2 | 1 | 2.30 |
| 97000 | 194000 | 3200 | 2500 | 4300 | 3400 | 100 | 96 | 150 | 154 | 2 | 1 | 2.30 |
| 105000 | 211000 | 6400 | 5100 | 8800 | 7000 | 100 | 100 | 150 | 154 | 2 | 1 | 2.30 |
| 147000 | 295000 | 3200 | 2600 | 4300 | 3400 | 104 | 97 | 176 | 183 | 2.5 | 1 | 5.76 |
| 139000 | 278000 | 2800 | 2300 | 3800 | 3000 | 104 | 97 | 176 | 183 | 2.5 | 1 | 5.76 |
| 146000 | 291000 | 5700 | 4600 | 7900 | 6300 | 104 | 104 | 176 | 183 | 2.5 | 1 | 5.76 |
| 66500 | 133000 | 3800 | 3100 | 5200 | 4200 | 102 | 102 | 138 | 140.6 | 1.5 | 1 | 1.36 |
| 73500 | 1470000 | 6700 | 5400 | 9200 | 7400 | 102 | 105 | 168 | 140.6 | 1.5 | 1 | 1.36 |
| 112000 | 225000 | 3400 | 2600 | 4500 | 3600 | 107 | 102 | 158 | 163 | 2 | 1 | 2.78 |
| 105000 | 210000 | 3000 | 2400 | 4000 | 3200 | 107 | 105 | 158 | 163 | 2 | 1 | 2.78 |
| 115000 | 230000 | 6000 | 4800 | 8300 | 6600 | 107 | 107 | 158 | 163 | 2 | 1 | 2.78 |
| 163000 | 325000 | 3000 | 2400 | 4000 | 3200 | 109 | 102 | 486 | 193 | 2.5 | 1 | 6.68 |
| 153000 | 305000 | 2500 | 2200 | 3600 | 3000 | 109 | 105 | 186 | 193 | 2.5 | 1 | 6.68 |
| 161000 | 320000 | 5400 | 4300 | 7500 | 6000 | 109 | 109 | 186 | 193 | 2.5 | 1 | 6.68 |

Single arrangement and paired arrangement
Bore diameter d: 100~120mm

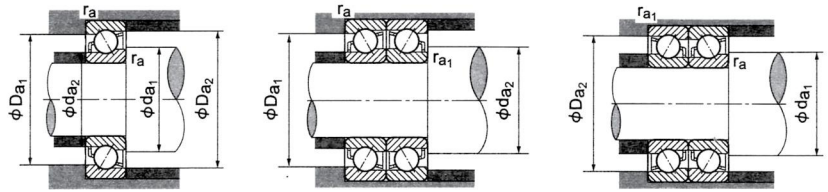



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 100 | 150 | 24 | 1.5 | 1 | 24.1 | **7020** | **7020DB** | **7020DF** | **7020DT** | 68500 | 111000 |
| | 150 | 24 | 1.5 | 1 | 2.4 | **7020C** | **7020CDB** | **7020CDF** | **7020CDT** | 76000 | 123000 |
| | 180 | 34 | 2.1 | 1.1 | 2.34 | **7220** | **7220DB** | **7220DF** | **7220DT** | 144000 | 234000 |
| | 180 | 34 | 2.1 | 1.1 | 41.8 | **7220B** | **7220BDB** | **7220BDF** | **7220BDT** | 135000 | 219000 |
| | 180 | 34 | 2.1 | 1.1 | -0.8 | **7220C** | **7220CDB** | **7220CDF** | **7220CDT** | 150000 | 244000 |
| | 215 | 47 | 3 | 1.1 | 22.0 | **7320** | **7320DB** | **7320DF** | **7320DT** | 207000 | 335000 |
| | 215 | 47 | 3 | 1.1 | 42.7 | **7320B** | **7320BDB** | **7320BDF** | **7320BDT** | 196000 | 320000 |
| | 215 | 47 | 3 | 1.1 | -5.3 | **7320C** | **7320CDB** | **7320CDF** | **7320CDT** | 211000 | 340000 |
| 105 | 160 | 26 | 2 | 1 | 25.2 | **7021** | **7021DB** | **7021DF** | **7021DT** | 80000 | 130000 |
| | 160 | 26 | 2 | 1 | 2.3 | **7021C** | **7021CDB** | **7021CDF** | **7021CDT** | 97000 | 158000 |
| | 190 | 36 | 2.1 | 1.1 | 24.6 | **7221** | **7221DB** | **7221DF** | **7221DT** | 157000 | 254000 |
| | 190 | 36 | 2.1 | 1.1 | 44.0 | **7221B** | **7221BDB** | **7221BDF** | **7221BDT** | 147000 | 239000 |
| | 190 | 36 | 2.1 | .1 | -0.9 | **7221C** | **7221CDB** | **7221CDF** | **7221CDT** | 163000 | 265000 |
| | 225 | 49 | 3 | 1.1 | 23.1 | **7321** | **7321DB** | **7321DF** | **7321DT** | 219000 | 355000 |
| | 225 | 49 | 3 | .1 | 44.8 | **7321B** | **7321BDB** | **7321BDF** | **7321BDT** | 208000 | 335000 |
| | 225 | 49 | 3 | 1.1 | -5.3 | **7321C** | **7321CDB** | **7321CDF** | **7321CDT** | 224000 | 365000 |
| 110 | 170 | 28 | 2 | 1 | 26.2 | **7022** | **7022DB** | **7022DF** | **7022DT** | 92000 | 149000 |
| | 170 | 28 | 2 | 1 | 2.2 | **7022C** | **7022CDB** | **7022CDF** | **7022CDT** | 107000 | 173000 |
| | 200 | 38 | 2.1 | 1.1 | 25.7 | **7222** | **7222DB** | **7222DF** | **7222DT** | 170000 | 276000 |
| | 200 | 38 | 2.1 | 1.1 | 46.1 | **7222B** | **7222BDB** | **7222BDF** | **7222BDT** | 159000 | 259000 |
| | 200 | 38 | 2.1 | 1.1 | -1.0 | **7222C** | **7222CDB** | **7222CDF** | **7222CDT** | 171000 | 277000 |
| | 240 | 50 | 3 | 1.1 | 25.5 | **7322** | **7322DB** | **7322DF** | **7322DT** | 244000 | 395000 |
| | 240 | 50 | 3 | .1 | 48.5 | **7322B** | **7322BDB** | **7322BDF** | **7322BDT** | 231000 | 375000 |
| | 240 | 50 | 3 | 1.1 | -4.7 | **7322C** | **7322CDB** | **7322CDF** | **7322CDT** | 237000 | 335000 |
| 120 | 180 | 28 | 2 | 1 | 29.3 | **7024** | **7024DB** | **7024DF** | **7024DT** | 96500 | 157000 |
| | 180 | 28 | 2 | 1 | 3.3 | **7024C** | **7024CDB** | **7024CDF** | **7024CDT** | 109000 | 178000 |
| | 215 | 40 | 2.1 | 1.1 | 28.4 | **7224** | **7224DB** | **7224DF** | **7224DT** | 182000 | 295000 |
| | 215 | 40 | 2.1 | 1.1 | 50.3 | **7224B** | **7224BDB** | **7224BDF** | **7224BDT** | 170000 | 277000 |
| | 215 | 40 | 2.1 | 1.1 | -0.6 | **7224C** | **7224CDB** | **7224CDF** | **7224CDT** | 185000 | 300000 |
| | 260 | 55 | 3 | 1.1 | 27.3 | **7324** | **7324DB** | **7324DF** | **7324DT** | 260000 | 420000 |
| | 260 | 55 | 3 | 1.1 | 52.2 | **7324B** | **7324BDB** | **7324BDF** | **7324BDT** | 245000 | 400000 |

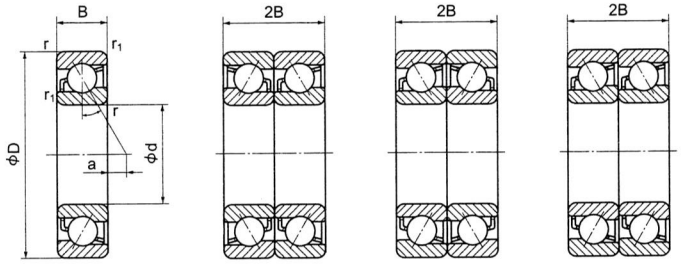







| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 70500 | 141000 | 3600 | 2800 | 4800 | 3800 | 107 | 107 | 143 | 145.6 | 1.5 | 1 | 1.37 |
| 77500 | 156000 | 6400 | 5100 | 8800 | 7000 | 107 | 107 | 143 | 145.6 | 1.5 | 1 | 1.37 |
| 126000 | 251000 | 3200 | 2400 | 4200 | 3400 | 112 | 112 | 168 | 173 | 2 | 1 | 3.32 |
| 118000 | 237000 | 2800 | 2200 | 3700 | 3000 | 112 | 112 | 168 | 173 | 2 | 1 | 3.32 |
| 128000 | 255000 | 5700 | 4600 | 7900 | 6300 | 112 | 112 | 168 | 173 | 2 | 1 | 3.32 |
| 190000 | 380000 | 2800 | 2200 | 3800 | 3000 | 114 | 107 | 201 | 208 | 2.5 | 1 | 8.18 |
| 180000 | 360000 | 2400 | 2000 | 3300 | 2800 | 114 | 107 | 201 | 208 | 2.5 | 1 | 8.18 |
| 197000 | 385000 | 5100 | 4100 | 7000 | 5600 | 114 | 114 | 201 | 208 | 2.5 | 1 | 8.18 |
| 81500 | 163000 | 3300 | 2600 | 4400 | 3500 | 113 | 113 | 152 | 155 | 2 | 1 | 1.73 |
| 97500 | 195000 | 6000 | 4800 | 8300 | 6600 | 113 | 113 | 152 | 155 | 2 | 1 | 1.73 |
| 141000 | 283000 | 3000 | 2400 | 4000 | 3200 | 117 | 112 | 178 | 183 | 2 | 1 | 3.93 |
| 135000 | 267000 | 2700 | 2100 | 3600 | 2900 | 117 | 112 | 178 | 183 | 2 | 1 | 3.93 |
| 144000 | 287000 | 5400 | 4300 | 7500 | 6000 | 117 | 117 | 178 | 183 | 2 | 1 | 3.93 |
| 206000 | 410000 | 2700 | 2100 | 3600 | 2800 | 119 | 112 | 211 | 218 | 2.5 | 1 | 9.34 |
| 196000 | 390000 | 2400 | 1900 | 3200 | 2600 | 119 | 112 | 211 | 218 | 2.5 | 1 | 9.34 |
| 212000 | 425000 | 4800 | 3800 | 6700 | 5400 | 119 | 119 | 211 | 218 | 2.5 | 1 | 9.34 |
| 92500 | 185000 | 3200 | 2500 | 4300 | 3300 | 118 | 118 | 162 | 165 | 2 | 1 | 2.14 |
| 104000 | 209000 | 5700 | 4600 | 7900 | 6300 | 118 | 118 | 162 | 165 | 2 | 1 | 2.14 |
| 158000 | 315000 | 2800 | 2200 | 3800 | 3000 | 122 | 117 | 188 | 193 | 2 | 1 | 4.62 |
| 149000 | 298000 | 2600 | 2000 | 3400 | 2800 | 122 | 117 | 188 | 193 | 2 | 1 | 4.62 |
| 157000 | 315000 | 5200 | 4200 | 7100 | 5700 | 122 | 122 | 188 | 193 | 2 | 1 | 4.62 |
| 239000 | 480000 | 2600 | 2000 | 3400 | 2700 | 124 | 117 | 226 | 233 | 2.5 | 1 | 11.0 |
| 227000 | 455000 | 2200 | 1800 | 3000 | 2400 | 124 | 117 | 226 | 233 | 2.5 | 1 | 11.0 |
| 227000 | 455000 | 4600 | 3700 | 6300 | 5000 | 124 | 124 | 226 | 233 | 2.5 | 1 | 11.0 |
| 103000 | 206000 | 2900 | 2300 | 3800 | 3000 | 128 | 128 | 172 | 175 | 2 | 1 | 2.27 |
| 112000 | 223000 | 5300 | 4200 | 7300 | 5800 | 128 | 128 | 172 | 175 | 2 | 1 | 2.27 |
| 180000 | 360000 | 2600 | 2100 | 3400 | 2700 | 132 | 127 | 203 | 208 | 2 | 1 | 6.05 |
| 169000 | 335000 | 2300 | 1900 | 3100 | 2500 | 132 | 127 | 203 | 208 | 2 | 1 | 6.05 |
| 176000 | 350000 | 4800 | 3800 | 6600 | 5300 | 132 | 132 | 203 | 208 | 2 | 1 | 6.05 |
| 169000 | 540000 | 2200 | 1800 | 3000 | 2400 | 134 | 127 | 246 | 253 | 2.5 | 1 | 14.2 |
| 253000 | 505000 | 2100 | 1700 | 2800 | 2200 | 134 | 127 | 246 | 253 | 2.5 | 1 | 14.2 |

Single arrangement and paired arrangement
Bore diameter d: 130~160mm

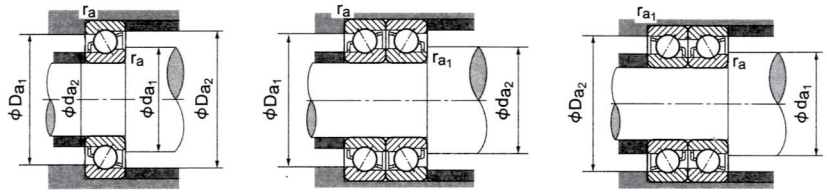



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 130 | 200 | 33 | 2 | 1 | 31.1 | **7026** | **7026DB** | **7026DF** | **7026DT** | 117000 | 190000 |
| | 200 | 33 | 2 | 1 | 2.5 | **7026C** | **7026CDB** | **7026CDF** | **7026CDT** | 130000 | 211000 |
| | 230 | 40 | 3 | 1.1 | 32 | **7226** | **7226DB** | **7226DF** | **7226DT** | 196000 | 320000 |
| | 230 | 40 | 3 | 1.1 | 55.5 | **7226B** | **7226BDB** | **7226BDF** | **7226BDT** | 184000 | 298000 |
| | 230 | 40 | 3 | 1.1 | 0.9 | **7226C** | **7226CDB** | **7226CDF** | **7226CDT** | 214000 | 350000 |
| | 280 | 58 | 4 | 1.5 | 30.2 | **7326** | **7326DB** | **7326DF** | **7326DT** | 300000 | 490000 |
| | 280 | 58 | 4 | 1.5 | 57.0 | **7326B** | **7326BDB** | **7326BDF** | **7326BDT** | 284000 | 460000 |
| 140 | 210 | 33 | 2 | 1 | 34 | **7028** | **7028DB** | **7028DF** | **7028DT** | 120000 | 194000 |
| | 210 | 33 | 2 | 1 | 3.7 | **7028C** | **7028CDB** | **7028CDF** | **7028CDT** | 133000 | 216000 |
| | 250 | 42 | 3 | 1.1 | 35.3 | **7228** | **7228DB** | **7228DF** | **7228DT** | 211000 | 345000 |
| | 250 | 42 | 3 | 1.1 | 60.8 | **7228B** | **7228BDB** | **7228BDF** | **7228BDT** | 197000 | 320000 |
| | 250 | 42 | 3 | 1.1 | 1.3 | **7228C** | **7228CDB** | **7228CDF** | **7228CDT** | 223000 | 360000 |
| | 300 | 62 | 4 | 1.5 | 32.5 | **7328** | **7328DB** | **7328DF** | **7328DT** | 300000 | 490000 |
| | 300 | 62 | 4 | 1.5 | 61.3 | **7328B** | **7328BDB** | **7328BDF** | **7328BDT** | 284000 | 460000 |
| 150 | 225 | 35 | 2.1 | 1.1 | 36.6 | **7030** | **7030DB** | **7030DF** | **7030DT** | 137000 | 222000 |
| | 225 | 35 | 2.1 | 1.1 | 4.1 | **7030C** | **7030CDB** | **7030CDF** | **7030CDT** | 152000 | 247000 |
| | 270 | 45 | 3 | 1.1 | 38.1 | **7230** | **7230DB** | **7230DF** | **7230DT** | 249000 | 405000 |
| | 270 | 45 | 3 | 1.1 | 65.6 | **7230B** | **7230BDB** | **7230BDF** | **7230BDT** | 223000 | 360000 |
| | 270 | 45 | 3 | 1.1 | 1.5 | **7230C** | **7230CDB** | **7230CDF** | **7230CDT** | 261000 | 425000 |
| | 320 | 65 | 4 | 1.1 | 35.3 | **7330** | **7330DB** | **7330DF** | **7330DT** | 330000 | 535000 |
| | 320 | 65 | 4 | 1.5 | 66.1 | **7330B** | **7330BDB** | **7330BDF** | **7330BDT** | 310000 | 505000 |
| 160 | 240 | 38 | 2.1 | 1.1 | 38.7 | **7032** | **7032DB** | **7032DF** | **7032DT** | 155000 | 252000 |
| | 240 | 38 | 2.1 | 1.1 | 4.1 | **7032C** | **7032CDB** | **7032CDF** | **7032CDT** | 172000 | 280000 |
| | 290 | 48 | 3 | 1.1 | 41.0 | **7232** | **7232DB** | **7232DF** | **7232DT** | 263000 | 425000 |
| | 290 | 48 | 3 | 1.1 | 70.4 | **7232B** | **7232BDB** | **7232BDF** | **7232BDT** | 246000 | 400000 |
| | 290 | 48 | 3 | 1.1 | 2.4 | **7232C** | **7232CDB** | **7232CDF** | **7232CDT** | 288000 | 470000 |
| | 340 | 68 | 4 | 1.5 | 38.2 | **7332** | **7332DB** | **7332DF** | **7332DT** | 345000 | 565000 |
| | 340 | 68 | 4 | 1.5 | 70.9 | **7332B** | **7332BDB** | **7332BDF** | **7332BDT** | 325000 | 530000 |

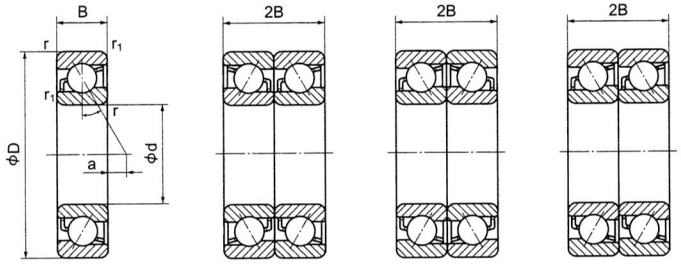







| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 125000 | 250000 | 2600 | 220 | 3600 | 2700 | 138 | 138 | 192 | 195 | 2 | 1 | 3.43 |
| 138000 | 276000 | 4800 | 3800 | 6700 | 5400 | 138 | 138 | 192 | 195 | 2 | 1 | 3.43 |
| 198000 | 395000 | 2400 | 1900 | 3100 | 2500 | 144 | 137 | 216 | 223 | 2.5 | 1 | 6.88 |
| 185000 | 370000 | 2100 | 1700 | 2800 | 2300 | 144 | 137 | 216 | 223 | 2.5 | 1 | 6.88 |
| 216000 | 430000 | 4400 | 3500 | 6100 | 4900 | 144 | 144 | 216 | 223 | 2.5 | 1 | 6.88 |
| 330000 | 660000 | 2200 | 1700 | 2900 | 2200 | 148 | 139 | 262 | 271 | 3 | 1.5 | 17.4 |
| 310000 | 620000 | 1900 | 1500 | 2600 | 2000 | 148 | 139 | 262 | 271 | 3 | 1.5 | 17.4 |
| 133000 | 265000 | 2400 | 1900 | 3300 | 2600 | 148 | 148 | 202 | 205 | 2 | 1 | 3.63 |
| 146000 | 292000 | 4600 | 3700 | 6300 | 5000 | 148 | 148 | 202 | 205 | 2 | 1 | 3.63 |
| 228000 | 525000 | 2200 | 1800 | 3000 | 5400 | 154 | 147 | 236 | 243 | 2.5 | 1 | 8.78 |
| 214000 | 425000 | 2000 | 1600 | 2600 | 2200 | 154 | 147 | 236 | 243 | 2.5 | 1 | 8.78 |
| 235000 | 470000 | 4100 | 3300 | 5600 | 4500 | 154 | 154 | 236 | 243 | 2.5 | 1 | 8.78 |
| 335000 | 670000 | 2000 | 1600 | 2600 | 2000 | 158 | 149 | 282 | 291 | 3 | 1.5 | 21.5 |
| 315000 | 635000 | 1700 | 1400 | 2400 | 1900 | 158 | 149 | 282 | 291 | 3 | 1.5 | 21.5 |
| 154000 | 305000 | 2300 | 1800 | 3000 | 2400 | 159 | 159 | 282 | 219 | 2 | 1 | 4.42 |
| 169000 | 340000 | 4300 | 3400 | 5900 | 4700 | 159 | 159 | 216 | 219 | 2 | 1 | 4.42 |
| 280000 | 560000 | 2000 | 1600 | 2800 | 2200 | 164 | 157 | 256 | 263 | 2.5 | 1 | 11.0 |
| 246000 | 490000 | 1800 | 1500 | 2800 | 2000 | 164 | 157 | 256 | 263 | 2.5 | 1 | 11.0 |
| 287000 | 575000 | 3800 | 3000 | 5200 | 4200 | 164 | 164 | 256 | 263 | 2.5 | 1 | 11.0 |
| 380000 | 765000 | 1700 | 1400 | 2400 | 1800 | 168 | 159 | 302 | 311 | 3 | 1.5 | 25.1 |
| 360000 | 725000 | 1500 | 1300 | 2200 | 1600 | 168 | 159 | 302 | 311 | 3 | 1.5 | 25.1 |
| 176000 | 350000 | 2100 | 1700 | 2800 | 2300 | 169 | 169 | 231 | 234 | 2 | 1 | 5.44 |
| 194000 | 390000 | 4000 | 3200 | 5500 | 4400 | 169 | 169 | 231 | 234 | 2 | 1 | 5.44 |
| 305000 | 615000 | 1900 | 1500 | 2600 | 2000 | 174 | 167 | 276 | 283 | 2.5 | 1 | 13.7 |
| 287000 | 575000 | 1700 | 1400 | 2200 | 1800 | 174 | 167 | 276 | 283 | 2.5 | 1 | 13.7 |
| 335000 | 670000 | 3600 | 2900 | 4900 | 3900 | 174 | 167 | 276 | 283 | 2.5 | 1 | 13.7 |
| 420000 | 845000 | 1700 | 1400 | 2200 | 1800 | 175 | 169 | 322 | 331 | 3 | 1.5 | 30.2 |
| 395000 | 795000 | 1500 | 1200 | 2000 | 1600 | 175 | 169 | 322 | 331 | 3 | 1.5 | 30.2 |

Single arrangement and paired arrangement
Bore diameter d: 170~200mm

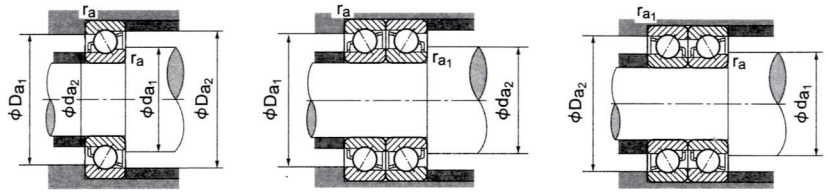



单列 DB 背对背 DF 面对面 DT 串联

| Principal dimensions | | | | | Load centerline (mm) | Designation | | | | Basic load rating Dynamic Cr (N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | $r_1$ (min) | | Single | Paired | | | Single | Paired |
| 170 | 260 | 42 | 2.1 | 1.1 | 41.1 | **7034** | **7034DB** | **7034DF** | **7034DT** | 179000 | 291000 |
| | 260 | 42 | 2.1 | 1.1 | 3.8 | **7034C** | **7034CDB** | **7034CDF** | **7034CDT** | 206000 | 335000 |
| | 310 | 52 | 4 | 1.5 | 43.3 | **7234** | **7234DB** | **7234DF** | **7234DT** | 272000 | 440000 |
| | 310 | 52 | 4 | 1.5 | 74.7 | **7234B** | **7234BDB** | **7234BDF** | **7234BDT** | 254000 | 410000 |
| | 310 | 52 | 4 | 1.5 | 2.2 | **7234C** | **7234CDB** | **7234CDF** | **7234CDT** | 299000 | 485000 |
| | 360 | 72 | 4 | 1.5 | 40.5 | **7334** | **7334DB** | **7334DF** | **7334DT** | 390000 | 630000 |
| | 360 | 72 | 4 | 1.5 | 75.2 | **7334B** | **7334BDB** | **7334BDF** | **7334BDT** | 365000 | 595000 |
| 180 | 280 | 46 | 2.1 | 1.1 | 43.4 | **7036** | **7036DB** | **7036DF** | **7036DT** | 207000 | 335000 |
| | 280 | 46 | 2.1 | 1.1 | 3.5 | **7036C** | **7036CDB** | **7036CDF** | **7036CDT** | 235000 | 385000 |
| | 320 | 52 | 4 | 1.5 | 46.2 | **7236** | **7236DB** | **7236DF** | **7236DT** | 281000 | 455000 |
| | 320 | 52 | 4 | 1.5 | 48.9 | **7236B** | **7236BDB** | **7236BDF** | **7236BDT** | 262000 | 425000 |
| | 320 | 52 | 4 | 1.5 | 3.3 | **7236C** | **7236CDB** | **7236CDF** | **7236CDT** | 310000 | 500000 |
| | 380 | 75 | 4 | 1.5 | 43.3 | **7336** | **7336DB** | **7336DF** | **7336DT** | 410000 | 665000 |
| | 380 | 75 | 4 | 1.5 | 80.0 | **7336B** | **7336BDB** | **7336BDF** | **7336BDT** | 385000 | 625000 |
| 190 | 290 | 46 | 2.1 | 1.1 | 46.3 | **7038** | **7038DB** | **7038DF** | **7038DT** | 218000 | 355000 |
| | 290 | 46 | 2.1 | 1.1 | 4.7 | **7038C** | **7038CDB** | **7038CDF** | **7038CDT** | 248000 | 405000 |
| | 340 | 55 | 4 | 1.5 | 49.0 | **7238** | **7238DB** | **7238DF** | **7238DT** | 315000 | 51000 |
| | 340 | 55 | 4 | 1.5 | 83.7 | **7238B** | **7238BDB** | **7238BDF** | **7238BDT** | 294000 | 475000 |
| | 400 | 78 | 5 | 2 | 46.1 | **7338** | **7338DB** | **7338DF** | **7338DT** | 445000 | 725000 |
| | 400 | 78 | 5 | 2 | 84.8 | **7338B** | **7338BDB** | **7338BDF** | **7338BDT** | 420000 | 680000 |
| | 310 | 51 | 2.1 | 1.1 | 48.1 | **7040** | **7040** | **7040DF** | **7040DT** | 226000 | 365000 |
| 200 | 310 | 51 | 2.1 | 1.1 | 3.9 | **7040C** | **7040CDB** | **7040CDF** | **7040CDT** | 274000 | 445000 |
| | 360 | 58 | 4 | 1.5 | 51.8 | **7240** | **7240DB** | **7240DF** | **7240DT** | 335000 | 550000 |
| | 360 | 58 | 4 | 1.5 | 88.5 | **7240B** | **7240BDB** | **7240BDF** | **7240BDT** | 315000 | 510000 |
| | 420 | 80 | 5 | 2 | 49.5 | **7340** | **7340DB** | **7340DF** | **7340DT** | 475000 | 770000 |
| | 420 | 80 | 5 | 2 | 90.1 | **7340B** | **7340BDB** | **7340BDF** | **7340BDT** | 445000 | 725000 |

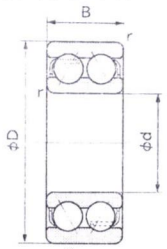




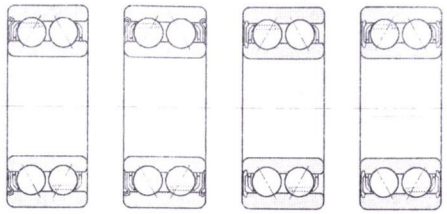



| Basic load rating Static Cor (N) | | Limiting speed | | | | Abutment and fillet Dimensions, mm | | | | | | Ref. Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grease | | Oil | | | | | | | | |
| Single | Paired | Single | Paired | Single | Paired | $d_{a_1}$ (min) | $d_{a_2}$ (min) | $D_{a_1}$ (max) | $D_{a_2}$ (max) | $r_a$ (max) | $r_{a_1}$ (max) | Single |
| 210000 | 420000 | 2000 | 1600 | 2600 | 2100 | 179 | 179 | 251 | 254 | 2 | 1 | 7.87 |
| 236000 | 470000 | 3700 | 3000 | 5100 | 4100 | 179 | 179 | 251 | 254 | 2 | 1 | 7.87 |
| 330000 | 660000 | 1800 | 1400 | 2400 | 1900 | 188 | 179 | 292 | 301 | 3 | 1.5 | 17.4 |
| 310000 | 620000 | 1600 | 1300 | 2200 | 1700 | 188 | 179 | 292 | 301 | 3 | 1.5 | 17.4 |
| 360000 | 725000 | 3300 | 2600 | 4600 | 3700 | 188 | 179 | 292 | 301 | 3 | 1.5 | 17.4 |
| 485000 | 970000 | 1600 | 1300 | 2200 | 1700 | 188 | 179 | 342 | 351 | 3 | 1.5 | 35.7 |
| 460000 | 915000 | 1400 | 1100 | 2000 | 1600 | 188 | 179 | 342 | 351 | 3 | 1.5 | 35.7 |
| 252000 | 505000 | 1900 | 1500 | 2500 | 2000 | 189 | 189 | 271 | 274 | 2 | 1 | 9.98 |
| 290000 | 580000 | 3500 | 2800 | 4800 | 3800 | 189 | 189 | 271 | 274 | 2 | 1 | 9.98 |
| 350000 | 705000 | 1700 | 1300 | 2200 | 1800 | 198 | 189 | 302 | 311 | 3 | 1.5 | 19.8 |
| 330000 | 660000 | 1500 | 1200 | 2000 | 1700 | 198 | 189 | 302 | 311 | 3 | 1.5 | 19.9 |
| 385000 | 775000 | 3200 | 2600 | 4400 | 3500 | 198 | 189 | 302 | 311 | 3 | 1.5 | 19.9 |
| 535000 | 1070000 | 1400 | 1200 | 2000 | 1600 | 198 | 189 | 362 | 371 | 3 | 1.5 | 41.3 |
| 505000 | 1010000 | 1300 | 1100 | 1900 | 1500 | 198 | 189 | 362 | 371 | 3 | 1.5 | 41.3 |
| 277000 | 555000 | 1800 | 1400 | 2300 | 1900 | 199 | 199 | 281 | 284 | 2 | 1 | 10.7 |
| 310000 | 3300 | 3300 | 2600 | 4600 | 3700 | 199 | 199 | 281 | 284 | 2 | 1 | 10.7 |
| 410000 | 825000 | 1600 | 1300 | 2200 | 1700 | 208 | 199 | 322 | 331 | 3 | 1.5 | 21.5 |
| 385000 | 770000 | 1400 | 1100 | 2000 | 1600 | 208 | 199 | 322 | 331 | 3 | 1.5 | 21.5 |
| 610000 | 1220000 | 1400 | 1100 | 1900 | 1500 | 212 | 200 | 378 | 390 | 4 | 2 | 47.6 |
| 575000 | 1150000 | 1300 | 1000 | 1800 | 1400 | 212 | 200 | 378 | 390 | 4 | 2 | 47.6 |
| 277000 | 565000 | 1700 | 1300 | 2200 | 1800 | 209 | 209 | 301 | 304 | 2 | 1 | 13.8 |
| 360000 | 715000 | 3100 | 2500 | 4300 | 3400 | 209 | 209 | 301 | 304 | 2 | 1 | 13.8 |
| 450000 | 900000 | 1500 | 1200 | 2000 | 1600 | 218 | 209 | 342 | 351 | 3 | 1.5 | 25.5 |
| 420000 | 840000 | 1300 | 1000 | 1900 | 1500 | 218 | 209 | 342 | 351 | 3 | 1.5 | 25.5 |
| 655000 | 1310000 | 1300 | 1100 | 1800 | 1400 | 222 | 210 | 398 | 410 | 4 | 2 | 53.7 |
| 620000 | 1240000 | 1200 | 1000 | 1700 | 1300 | 222 | 210 | 398 | 410 | 4 | 2 | 53.7 |

Bore diameter d: 10~50mm




Open

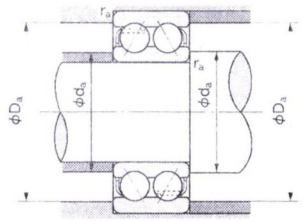


One shield (Z) | Two shields (ZZ) | One seal (RS) | Two seals (2RS)

| Principal dimensions (mm) | | | | Designation | | | | |
|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | Open type | Shield type | | seal type | |
| 10 | 30 | 14.3 | 0.6 | **3200** | **3200-Z** | **3200-ZZ** | **3200-RS** | **3200-2RS** |
| | 30 | 14.3 | 0.6 | **3200A** | **3200A-Z** | **3200A-ZZ** | **3200A-RS** | **3200A-2RS** |
| 12 | 32 | 15.9 | 0.6 | **3201** | **3201-Z** | **3201-ZZ** | **3201-RS** | **3201-2RS** |
| | 32 | 15.9 | 0.6 | **3201A** | **3201A-Z** | **3201A-ZZ** | **3201A-RS** | **3201A-2RS** |
| 15 | 35 | 15.9 | 0.6 | **3202** | **3202-Z** | **3202-ZZ** | **3202-RS** | **3202-2RS** |
| | 35 | 15.9 | 0.6 | **3202A** | **3202A-Z** | **3202A-ZZ** | **3202A-RS** | **3202A-2RS** |
| 17 | 40 | 17.5 | 0.6 | **3203** | **3203-Z** | **3203-ZZ** | **3203-RS** | **3203-2RS** |
| | 40 | 17.5 | 0.6 | **3203A** | **3203A-Z** | **3203A-ZZ** | **3203A-RS** | **3203A-2RS** |
| | 47 | 22.2 | 1 | **3303** | - | - | - | - |
| 20 | 47 | 20.6 | 1 | **3204** | **3204-Z** | **3204-ZZ** | **3204-RS** | **3204-2RS** |
| | 47 | 20.6 | 1 | **3204A** | **3204A-Z** | **3204A-ZZ** | **3204A-RS** | **3204A-2RS** |
| | 52 | 22.2 | 1.1 | **3304** | - | - | - | - |
| 25 | 52 | 20.6 | 1 | **3205** | **3205-Z** | **3205-ZZ** | **3205-RS** | **3205-2RS** |
| | 52 | 20.6 | 1 | **3205A** | **3205A-Z** | **3205A-ZZ** | **3205A-RS** | **3205A-2RS** |
| | 62 | 25.4 | 1.1 | **3305** | - | - | - | - |
| 30 | 62 | 23.8 | 1 | **3206** | - | - | - | - |
| | 62 | 23.8 | 1 | - | **3206-Z** | **3206-ZZ** | **3206-RS** | **3206-2RS** |
| | 62 | 23.8 | 1 | **3206A** | - | - | - | - |
| | 62 | 23.8 | 1 | - | **3206A-Z** | **3206A-ZZ** | **3206A-RS** | **3206A-2RS** |
| | 72 | 30.2 | 1.1 | **3306** | - | - | - | - |
| 35 | 72 | 27 | 1.1 | **3207** | - | - | - | - |
| | 72 | 27 | 1.1 | - | **3207-Z** | **3207-ZZ** | **3207-RS** | **3207-2RS** |
| | 72 | 27 | 1.1 | **3207A** | - | - | - | - |
| | 72 | 27 | 1.1 | - | **3207A-Z** | **3207A-ZZ** | **3207A-RS** | **3207A-2RS** |
| | 80 | 34.9 | 1.5 | **3307** | - | - | - | - |
| 40 | 80 | 30.2 | 1.1 | **3208** | - | - | - | - |
| | 80 | 30.2 | 1.1 | - | **3208-Z** | **3208-ZZ** | **3208-RS** | **3208-2RS** |
| | 80 | 30.2 | 1.1 | **3208A** | - | - | - | - |
| | 80 | 30.2 | 1.1 | - | **3208A-Z** | **3208A-ZZ** | **3208A-RS** | **3208A-2RS** |
| | 90 | 36.5 | 1.5 | **3308** | - | - | - | - |
| 45 | 85 | 30.2 | 1.1 | **3209** | - | - | - | - |
| | 85 | 30.2 | 1.1 | - | **3209-Z** | **3209-ZZ** | **3209-RS** | **3209-2RS** |
| | 85 | 30.2 | 1.1 | **3209A** | - | - | - | - |
| | 85 | 30.2 | 1.1 | - | **3209A-Z** | **3209A-ZZ** | **3209A-RS** | **3209A-2RS** |
| | 100 | 39.7 | 1.5 | **3309** | - | - | - | - |
| 50 | 90 | 30.2 | 1.1 | **3210** | - | - | - | - |
| | 90 | 30.2 | 1.1 | - | **3210-Z** | **3210-ZZ** | **3210-RS** | **3210-2RS** |
| | 90 | 30.2 | 1.1 | **3210A** | - | - | - | - |
| | 90 | 30.2 | 1.1 | - | **3210A-Z** | **3210A-ZZ** | **3210A-RS** | **3210A-2RS** |
| | 110 | 44.4 | 2 | **3310** | - | - | - | - |

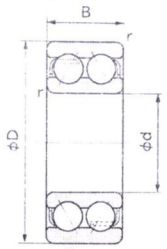




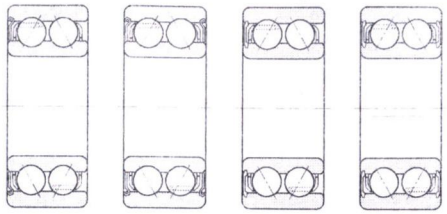



| Basic load rating | | Limiting speed | | Abutment and fillet Dimensions | | | Ref. Weight (g) | Designation |
|---|---|---|---|---|---|---|---|---|
| Dynamic Cr(N) | Static Cor(N) | Grease | Oil | $d_a$ (min) | $D_a$ (max) | $r_a$ (max) | | |
| 7300 | 4000 | 18000 | 24000 | 15 | 25 | 0.6 | 0.050 | **3200** |
| 6950 | 3800 | 16000 | 22000 | 15 | 25 | 0.6 | 0.050 | **3200A** |
| 10700 | 5950 | 16000 | 22000 | 17 | 27 | 0.6 | 0.060 | **3201** |
| 10300 | 5650 | 15000 | 20000 | 17 | 27 | 0.6 | 0.060 | **3201A** |
| 11900 | 7200 | 14000 | 19000 | 20 | 30 | 0.6 | 0.070 | **3202** |
| 11400 | 6850 | 12000 | 17000 | 20 | 30 | 0.6 | 0.070 | **3202A** |
| 15000 | 9250 | 12000 | 17000 | 22 | 35 | 0.6 | 0.090 | **3203** |
| 14200 | 8800 | 11000 | 15000 | 22 | 35 | 0.6 | 0.090 | **3203A** |
| 23100 | 12700 | 10000 | 14000 | 23 | 41 | 1 | 0.140 | **3303** |
| 20000 | 12700 | 10000 | 14000 | 26 | 41 | 1 | 0.120 | **3204** |
| 19000 | 12100 | 9500 | 13000 | 26 | 41 | 1 | 0.120 | **3204A** |
| 21700 | 13300 | 9000 | 11000 | 27 | 45 | 1 | 0.230 | **3304** |
| 21800 | 15100 | 9500 | 13000 | 31 | 46 | 1 | 0.190 | **3205** |
| 20600 | 14300 | 8000 | 11000 | 31 | 46 | 1 | 0.190 | **3205A** |
| 32000 | 21600 | 7300 | 10000 | 32 | 55 | 1 | 0.340 | **3305** |
| 30500 | 21700 | 8000 | 11000 | 36 | 56 | 1 | 0.290 | **3206** |
| 25900 | 18700 | 8000 | - | 36 | 56 | 1 | 0.290 | **3206Z** |
| 28600 | 20500 | 7000 | 9500 | 36 | 56 | 1 | 0.290 | **3206A** |
| 24400 | 17700 | 7000 | - | 36 | 56 | 1 | 0.290 | **3206AZ** |
| 41500 | 29000 | 7000 | 9500 | 37 | 65 | 1 | 0.510 | **3306** |
| 40000 | 29500 | 7000 | 9500 | 42 | 65 | 1 | 0.430 | **3207** |
| 35000 | 25900 | 7000 | - | 42 | 65 | 1 | 0.430 | **3207Z** |
| 38000 | 27700 | 6000 | 8000 | 42 | 65 | 1 | 0.430 | **3207A** |
| 33000 | 24500 | 6000 | - | 42 | 65 | 1 | 0.430 | **3207AZ** |
| 52000 | 37000 | 6300 | 8500 | 44 | 71 | 1.5 | 0.790 | **3307** |
| 45500 | 34000 | 6000 | 8000 | 47 | 73 | 1 | 0.570 | **3208** |
| 40000 | 30500 | 6000 | - | 47 | 73 | 1 | 0.570 | **3208Z** |
| 42500 | 32500 | 5300 | 7200 | 47 | 73 | 1 | 0.570 | **3208A** |
| 37500 | 28700 | 5300 | - | 47 | 73 | 1 | 0.570 | **3208AZ** |
| 63500 | 46500 | 5500 | 7500 | 49 | 81 | 1.5 | 1.05 | **3308** |
| 51000 | 39000 | 5500 | 7500 | 52 | 78 | 1 | 0.620 | **3209** |
| 42500 | 34500 | 5500 | - | 52 | 78 | 1 | 0.620 | **3209Z** |
| 48000 | 37000 | 5000 | 6700 | 52 | 78 | 1 | 0.620 | **3209A** |
| 40000 | 32500 | 5000 | - | 52 | 78 | 1 | 0.620 | **3209AZ** |
| 76500 | 56500 | 5000 | 6700 | 54 | 91 | 1.5 | 1.42 | **3309** |
| 54500 | 44500 | 5000 | 6700 | 57 | 83 | 1 | 0.670 | **3210** |
| 45000 | 39000 | 5000 | - | 57 | 83 | 1 | 0.670 | **3210Z** |
| 51000 | 42000 | 4500 | 6000 | 57 | 83 | 1 | 0.670 | **3210A** |
| 42000 | 36500 | 4500 | - | 57 | 83 | 1 | 0.670 | **3210AZ** |
| 90000 | 68000 | 4500 | 6000 | 60 | 100 | 2 | 1.93 | **3310** |

Bore diameter d: 55~100mm




Open

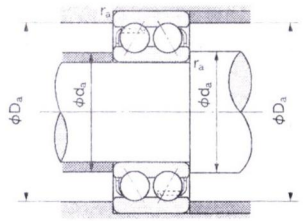


One shield (Z) | Two shields (ZZ) | One seal (RS) | Two seals (2RS)

| Principal dimensions (mm) | | | | Designation | | | | |
|---|---|---|---|---|---|---|---|---|
| d | D | B | r (min) | Open type | Shield type | | seal type | |
| 55 | 100 | 33.3 | 1.5 | **3211** | - | - | - | - |
| | 100 | 33.3 | 1.5 | - | **3211-Z** | **3211-ZZ** | **3211-RS** | **3211-2RS** |
| | 100 | 33.3 | 1.5 | **3211A** | - | - | - | - |
| | 100 | 33.3 | 1.5 | - | **3211A-Z** | **3211A-ZZ** | **3211A-RS** | **3211A-2RS** |
| | 120 | 49.2 | 2 | **3311** | - | - | - | - |
| 60 | 110 | 36.5 | 1.5 | **3212** | - | - | - | - |
| | 110 | 36.5 | 1.5 | - | **3212-Z** | **3212-ZZ** | **3212-RS** | **3212-2RS** |
| | 110 | 36.5 | 1.5 | **3212A** | - | - | - | - |
| | 110 | 36.5 | 1.5 | - | **3212A-Z** | **3212A-ZZ** | **3212A-RS** | **3212A-2RS** |
| | 130 | 54 | 2.1 | **3312** | - | - | - | - |
| 65 | 120 | 38.1 | 1.5 | **3213** | - | - | - | - |
| | 120 | 38.1 | 1.5 | - | **3213-Z** | **3213-ZZ** | **3213-RS** | **3213-2RS** |
| | 120 | 38.1 | 1.5 | **3213A** | - | - | - | - |
| | 120 | 38.1 | 1.5 | - | **3213A-Z** | **3213A-ZZ** | **3213A-RS** | **3213A-2RS** |
| | 140 | 58.7 | 2.1 | **3313** | - | - | - | - |
| 70 | 125 | 39.7 | 1.5 | **3214** | - | - | - | - |
| | 125 | 39.7 | 1.5 | - | **3214-Z** | **3214-ZZ** | **3214-RS** | **3214-2RS** |
| | 125 | 39.7 | 1.5 | **3214A** | - | - | - | - |
| | 125 | 39.7 | 1.5 | - | **3214A-Z** | **3214A-ZZ** | **3214A-RS** | **3214A-2RS** |
| | 150 | 63.5 | 2.1 | **3314** | - | - | - | - |
| 75 | 130 | 41.3 | 1.5 | **3215** | - | - | - | - |
| | 130 | 41.3 | 1.5 | - | **3215-Z** | **3215-ZZ** | **3215-RS** | **3215-2RS** |
| | 130 | 41.3 | 1.5 | **3215A** | - | - | - | - |
| | 130 | 41.3 | 1.5 | - | **3215A-Z** | **3215A-ZZ** | **3215A-RS** | **3215A-2RS** |
| | 160 | 68.3 | 2.1 | **3315** | - | - | - | - |
| 80 | 140 | 44.4 | 2 | **3216** | - | - | - | - |
| | 140 | 44.4 | 2 | **3216A** | - | - | - | - |
| | 170 | 68.3 | 2.1 | **3316** | - | - | - | - |
| 85 | 150 | 49.2 | 2 | **3217** | - | - | - | - |
| | 150 | 49.2 | 2 | **3217A** | - | - | - | - |
| 90 | 160 | 52.4 | 2 | **3218** | - | - | - | - |
| | 160 | 52.4 | 2 | **3218A** | - | - | - | - |
| 95 | 170 | 55.6 | 2.1 | **3219** | - | - | - | - |
| | 170 | 55.6 | 2.1 | **3219A** | - | - | - | - |
| 100 | 180 | 60.3 | 2.1 | **3220** | - | - | - | - |
| | 180 | 60.3 | 2.1 | **3220A** | - | - | - | - |

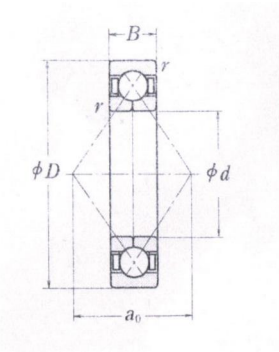







| Basic load rating | | Limiting speed | | Abutment and fillet Dimensions | | | Ref. Weight (g) | Designation |
|---|---|---|---|---|---|---|---|---|
| Dynamic Cr(N) | Static Cor(N) | Grease | Oil | $d_a$ (min) | $D_a$ (max) | $r_a$ (max) | | |
| 67500 | 56500 | 4500 | 6300 | 64 | 91 | 1.5 | 0.960 | **3211** |
| 57500 | 50500 | 4500 | - | 64 | 91 | 1.5 | 0.960 | **3211Z** |
| 63500 | 53000 | 4000 | 5500 | 64 | 91 | 1.5 | 0.960 | **3211A** |
| 54000 | 47500 | 4000 | - | 64 | 91 | 1.5 | 0.960 | **3211AZ** |
| 112000 | 86500 | 4000 | 5500 | 65 | 110 | 2 | 2.30 | **3311** |
| 76000 | 62000 | 4300 | 5600 | 69 | 101 | 1.5 | 1.36 | **3212** |
| 67000 | 57500 | 4300 | - | 69 | 101 | 1.5 | 1.36 | **3212Z** |
| 71500 | 58500 | 3800 | 5000 | 69 | 101 | 1.5 | 1.36 | **3212A** |
| 63000 | 54000 | 3800 | - | 69 | 101 | 1.5 | 1.36 | **3212AZ** |
| 128000 | 101000 | 3800 | 5000 | 72 | 118 | 2 | 3.16 | **3312** |
| 89000 | 77000 | 3900 | 5300 | 74 | 111 | 1.5 | 1.66 | **3213** |
| 78500 | 71000 | 3900 | - | 74 | 111 | 1.5 | 1.66 | **3213Z** |
| 83500 | 72500 | 3400 | 4600 | 74 | 111 | 1.5 | 1.66 | **3213A** |
| 73500 | 66500 | 3400 | - | 74 | 111 | 1.5 | 1.66 | **3213AZ** |
| 145000 | 115000 | 3600 | 4700 | 77 | 128 | 2 | 3.86 | **3313** |
| 96500 | 84500 | 3800 | 5000 | 79 | 116 | 1.5 | 1.82 | **3214** |
| 86000 | 79000 | 3800 | - | 79 | 116 | 1.5 | 1.82 | **3214Z** |
| 90500 | 79500 | 3200 | 4500 | 79 | 116 | 1.5 | 1.82 | **3214A** |
| 80500 | 74000 | 3200 | - | 79 | 116 | 1.5 | 1.82 | **3214AZ** |
| 163000 | 132000 | 3200 | 4300 | 82 | 138 | 2 | 4.88 | **3314** |
| 96000 | 85500 | 3400 | 4700 | 84 | 121 | 1.5 | 1.91 | **3215** |
| 94000 | 87000 | 3400 | - | 84 | 121 | 1.5 | 1.91 | **3215Z** |
| 90000 | 80500 | 3200 | 4300 | 84 | 121 | 1.5 | 1.91 | **3215A** |
| 88000 | 81500 | 3200 | - | 84 | 121 | 1.5 | 1.91 | **3215AZ** |
| 178000 | 149000 | 3000 | 4000 | 87 | 148 | 2 | 5.51 | **3315** |
| 104000 | 94000 | 3500 | 4600 | 90 | 130 | 2 | 2.48 | **3216** |
| 97500 | 88500 | 2800 | 4000 | 90 | 130 | 2 | 2.48 | **3216A** |
| 192000 | 167000 | 2800 | 4000 | 92 | 158 | 2 | 6.81 | **3316** |
| 112000 | 103000 | 3000 | 4000 | 95 | 140 | 2 | 3.40 | **3217** |
| 105000 | 96500 | 2600 | 3800 | 95 | 140 | 2 | 3.40 | **3217A** |
| 138000 | 133000 | 2700 | 3900 | 100 | 150 | 2 | 4.28 | **3218** |
| 129000 | 125000 | 2500 | 3500 | 100 | 150 | 2 | 4.28 | **3218A** |
| 149000 | 139000 | 2600 | 3700 | 107 | 158 | 2 | 5.02 | **3219** |
| 139000 | 131000 | 2400 | 3200 | 107 | 158 | 2 | 5.02 | **3219A** |
| 168000 | 159000 | 2400 | 3200 | 112 | 168 | 2 | 5.78 | **3220** |
| 158000 | 150000 | 2200 | 3000 | 112 | 168 | 2 | 5.78 | **3220A** |

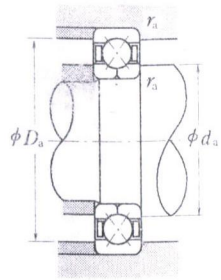
Bore diameter d: 30~95mm




| Principal dimensions (mm) | | | | Designation | Basic load rating | |
|---|---|---|---|---|---|---|
| d | D | B | r (min) | | Dynamic Cr(N) | Static Cor(N) |
| 30 | 62 | 16 | 1 | **QJ 206** | 31000 | 45000 |
| | 72 | 19 | 1.1 | **QJ 306** | 46000 | 63000 |
| 35 | 72 | 17 | 1.1 | **QJ 207** | 41000 | 61500 |
| | 80 | 21 | 1.5 | **QJ 307** | 55000 | 80000 |
| 40 | 80 | 18 | 1.1 | **QJ 208** | 49000 | 77500 |
| | 90 | 23 | 1.5 | **QJ 308** | 67000 | 100000 |
| 45 | 85 | 19 | 1.1 | **QJ 209** | 55000 | 88500 |
| | 100 | 25 | 1.5 | **QJ 309** | 87500 | 133000 |
| 50 | 90 | 20 | 1.1 | **QJ 210** | 57000 | 97000 |
| | 110 | 27 | 2 | **QJ 310** | 102000 | 159000 |
| 55 | 100 | 21 | 1.5 | **QJ 211** | 71000 | 122000 |
| | 120 | 29 | 2 | **QJ 311** | 118000 | 187000 |
| 60 | 110 | 22 | 1.5 | **QJ 212** | 85500 | 150000 |
| | 130 | 31 | 2.1 | **QJ 312** | 135000 | 217000 |
| 65 | 120 | 23 | 1.5 | **QJ 213** | 97500 | 179000 |
| | 140 | 33 | 2.1 | **QJ 313** | 153000 | 250000 |
| 70 | 125 | 24 | 1.5 | **QJ 214** | 106000 | 197000 |
| | 150 | 35 | 2.1 | **QJ 314** | 172000 | 285000 |
| 75 | 130 | 25 | 1.5 | **QJ 215** | 110000 | 212000 |
| | 160 | 37 | 2.1 | **QJ 315** | 187000 | 320000 |
| 80 | 125 | 22 | 1.1 | **QJ 1016** | 77000 | 167000 |
| | 140 | 26 | 2 | **QJ 216** | 124000 | 236000 |
| | 170 | 39 | 2.1 | **QJ 316** | 202000 | 360000 |
| 85 | 130 | 22 | 1.1 | **QJ 1017** | 79000 | 176000 |
| | 150 | 28 | 2 | **QJ 217** | 143000 | 276000 |
| | 180 | 41 | 3 | **QJ 317** | 218000 | 405000 |
| 90 | 140 | 24 | 1.5 | **QJ 1018** | 94000 | 208000 |
| | 160 | 30 | 2 | **QJ 218** | 164000 | 320000 |
| | 190 | 43 | 3 | **QJ 318** | 235000 | 450000 |
| 95 | 145 | 24 | 1.5 | **QJ 1019** | 96500 | 220000 |
| | 170 | 32 | 2.1 | **QJ 219** | 177000 | 340000 |
| | 200 | 45 | 3 | **QJ 319** | 251000 | 495000 |

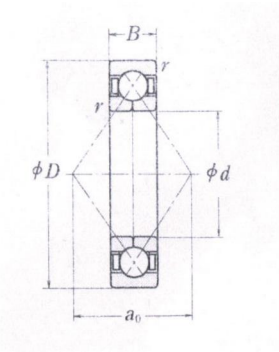







| Limiting speed | | Load Center Spacings (mm) $a_0$ | Abutment and fillet Dimensions | | | Ref. Weight (g) | Designation |
|---|---|---|---|---|---|---|---|
| Grease | Oil | | $d_a$ (min) | $D_a$ (max) | $r_a$ (max) | | |
| 8500 | 12000 | 32.2 | 36 | 56 | 1 | 0.24 | **QJ 206** |
| 8000 | 11000 | 35.7 | 37 | 65 | 1 | 0.42 | **QJ 306** |
| 7500 | 10000 | 37.5 | 42 | 65 | 1 | 0.35 | **QJ 207** |
| 7100 | 9500 | 40.3 | 44 | 71 | 1.5 | 0.57 | **QJ 307** |
| 6700 | 9000 | 42.0 | 47 | 73 | 1 | 0.45 | **QJ 208** |
| 6300 | 8500 | 45.5 | 49 | 81 | 1.5 | 0.78 | **QJ 308** |
| 6300 | 8500 | 45.5 | 52 | 78 | 1 | 0.52 | **QJ 209** |
| 5600 | 7500 | 50.8 | 54 | 91 | 1.5 | 1.05 | **QJ 309** |
| 5600 | 8000 | 49.0 | 57 | 83 | 1 | 0.59 | **QJ 210** |
| 5000 | 6700 | 56.0 | 60 | 100 | 2 | 1.35 | **QJ 310** |
| 5300 | 7100 | 54.3 | 64 | 91 | 1.5 | 0.77 | **QJ 211** |
| 4500 | 6300 | 61.3 | 65 | 110 | 2 | 1.75 | **QJ 311** |
| 4800 | 6300 | 29.5 | 69 | 101 | 1.5 | 0.98 | **QJ 212** |
| 4300 | 5600 | 66.8 | 72 | 118 | 2 | 2.15 | **QJ 312** |
| 4300 | 6000 | 64.8 | 74 | 111 | 1.5 | 1.2 | **QJ 213** |
| 3800 | 5300 | 71.8 | 77 | 128 | 2 | 2.7 | **QJ 313** |
| 4000 | 5600 | 68.3 | 79 | 116 | 1.5 | 1.3 | **QJ 214** |
| 3600 | 5000 | 77.0 | 82 | 138 | 2 | 3.18 | **QJ 314** |
| 3800 | 5300 | 71.8 | 84 | 121 | 1.5 | 1.5 | **QJ 215** |
| 3400 | 4800 | 82.3 | 87 | 148 | 2 | 3.9 | **QJ 315** |
| 3800 | 5300 | 71.8 | 87 | 118 | 1 | 1.05 | **QJ 1016** |
| 3600 | 5000 | 77.0 | 90 | 130 | 2 | 1.85 | **QJ 216** |
| 3200 | 4300 | 87.5 | 92 | 158 | 2 | 4.6 | **QJ 316** |
| 3800 | 5000 | 75.3 | 92 | 123 | 1 | 1.1 | **QJ 1017** |
| 3400 | 4800 | 82.3 | 95 | 140 | 2 | 2.2 | **QJ 217** |
| 3000 | 4000 | 92.8 | 99 | 166 | 2.5 | 5.34 | **QJ 317** |
| 3400 | 4800 | 80.5 | 99 | 131 | 1.5 | 1.45 | **QJ 1018** |
| 3200 | 4300 | 87.5 | 100 | 150 | 2 | 2.75 | **QJ 218** |
| 2800 | 3800 | 98.0 | 104 | 176 | 2.5 | 6.4 | **QJ 318** |
| 3400 | 4500 | 84.0 | 104 | 136 | 1.5 | 4.5 | **QJ 1019** |
| 3000 | 4000 | 92.8 | 107 | 158 | 2 | 3.35 | **QJ 219** |
| 2600 | 3600 | 103.3 | 109 | 186 | 2.5 | 7.4 | **QJ 319** |

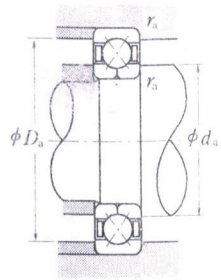
Bore diameter d: 100~200mm




| Principal dimensions (mm) | | | | Designation | Basic load rating | |
|---|---|---|---|---|---|---|
| d | D | B | r (min) | | Dynamic Cr(N) | Static Cor(N) |
| 100 | 150 | 24 | 1.5 | **QJ 1020** | 98500 | 232000 |
| | 160 | 34 | 2.1 | **QJ 220** | 199000 | 390000 |
| | 215 | 47 | 3 | **QJ 320** | 300000 | 640000 |
| 105 | 160 | 26 | 2 | **QJ 1021** | 115000 | 269000 |
| | 190 | 36 | 2.1 | **QJ 221** | 217000 | 435000 |
| | 225 | 49 | 3 | **QJ 321** | 305000 | 640000 |
| 110 | 110 | 28 | 2 | **QJ 1022** | 139000 | 315000 |
| | 200 | 38 | 2.1 | **QJ 222** | 235000 | 490000 |
| | 240 | 50 | 3 | **QJ 322** | 320000 | 710000 |
| 120 | 180 | 28 | 2 | **QJ 1024** | 147000 | 350000 |
| | 215 | 40 | 2.1 | **QJ 224** | 265000 | 585000 |
| | 260 | 55 | 3 | **QJ 324** | 360000 | 835000 |
| 130 | 200 | 33 | 2 | **QJ 1026** | 169000 | 415000 |
| | 230 | 42 | 3 | **QJ 226** | 274000 | 635000 |
| | 280 | 62 | 4 | **QJ 326** | 400000 | 970000 |
| 140 | 210 | 35 | 2 | **QJ 1028** | 172000 | 435000 |
| | 250 | 45 | 3 | **QJ 228** | 315000 | 775000 |
| | 300 | 62 | 4 | **QJ 328** | 440000 | 1110000 |
| 150 | 225 | 35 | 2.1 | **QJ 1030** | 197000 | 505000 |
| | 270 | 45 | 3 | **QJ 230** | 360000 | 925000 |
| | 320 | 65 | 4 | **QJ 330** | 460000 | 1230000 |
| 160 | 240 | 38 | 2.1 | **QJ 1032** | 224000 | 580000 |
| | 290 | 48 | 3 | **QJ 232** | 380000 | 1010000 |
| | 340 | 68 | 4 | **QJ 332** | 505000 | 1400000 |
| 170 | 260 | 42 | 2.1 | **QJ 1034** | 268000 | 705000 |
| | 310 | 52 | 4 | **QJ 234** | 425000 | 1180000 |
| | 360 | 72 | 4 | **QJ 334** | 565000 | 1610000 |
| 180 | 280 | 46 | 2.1 | **QJ 1036** | 299000 | 830000 |
| | 320 | 52 | 4 | **QJ 236** | 440000 | 1270000 |
| | 380 | 75 | 4 | **QJ 336** | 595000 | 1770000 |
| 190 | 290 | 46 | 2.1 | **QJ 1038** | 325000 | 925000 |
| | 340 | 55 | 4 | **QJ 238** | 455000 | 1360000 |
| | 400 | 78 | 5 | **QJ 338** | 655000 | 1980000 |
| 200 | 310 | 51 | 2.1 | **QJ 1040** | 345000 | 1020000 |
| | 360 | 58 | 4 | **QJ 240** | 490000 | 1480000 |
| | 420 | 80 | 5 | **QJ 340** | 690000 | 2180000 |








| Limiting speed | | Load Center Spacings (mm) $a_0$ | Abutment and fillet Dimensions | | | Ref. Weight (g) | Designation |
|---|---|---|---|---|---|---|---|
| Grease | Oil | | $d_a$ (min) | $D_a$ (max) | $r_a$ (max) | | |
| 3200 | 4300 | 87.5 | 109 | 141 | 1.5 | 1.6 | **QJ 1020** |
| 2800 | 3800 | 98.0 | 112 | 168 | 2 | 4.0 | **QJ 220** |
| 2400 | 3400 | 110.3 | 114 | 201 | 2.5 | 9.3 | **QJ 320** |
| 3000 | 4000 | 92.8 | 115 | 150 | 2 | 2.0 | **QJ 1021** |
| 2600 | 3600 | 103.3 | 117 | 178 | 2 | 4.7 | **QJ 221** |
| 2400 | 3200 | 115.5 | 119 | 211 | 2.5 | 10.5 | **QJ 321** |
| 2800 | 3800 | 98.0 | 120 | 160 | 2 | 2.5 | **QJ 1022** |
| 2600 | 3400 | 108.5 | 122 | 188 | 2 | 5.6 | **QJ 222** |
| 2200 | 3000 | 122.5 | 124 | 226 | 2.5 | 12.5 | **QJ 322** |
| 2600 | 3600 | 105.0 | 130 | 170 | 2 | 2.65 | **QJ 1024** |
| 2400 | 3200 | 117.3 | 132 | 203 | 2 | 6.9 | **QJ 224** |
| 2000 | 2800 | 133.0 | 134 | 246 | 2.5 | 15.4 | **QJ 324** |
| 2400 | 3200 | 115.5 | 140 | 190 | 2 | 4.0 | **QJ 1026** |
| 2200 | 3000 | 126.0 | 144 | 216 | 2.5 | 7.7 | **QJ 226** |
| 1900 | 2600 | 143.5 | 148 | 262 | 3 | 19 | **QJ 326** |
| 2200 | 3000 | 122.5 | 150 | 200 | 2 | 4.3 | **QJ 1028** |
| 2000 | 2800 | 136.5 | 154 | 236 | 2.5 | 9.8 | **QJ 228** |
| 1700 | 2400 | 154.0 | 158 | 282 | 3 | 24 | **QJ 328** |
| 2000 | 2800 | 131.3 | 162 | 213 | 2 | 5.2 | **QJ 1030** |
| 1800 | 2600 | 147.0 | 164 | 256 | 2.5 | 12 | **QJ 230** |
| 1600 | 2200 | 164.5 | 168 | 302 | 3 | 29 | **QJ 330** |
| 1900 | 2600 | 140.0 | 172 | 228 | 2 | 6.4 | **QJ 1032** |
| 1700 | 2400 | 157.5 | 174 | 276 | 2.5 | 15 | **QJ 232** |
| 1500 | 2000 | 175.1 | 178 | 322 | 3 | 31 | **QJ 332** |
| 1800 | 2400 | 150.5 | 182 | 248 | 2 | 8.6 | **QJ 1034** |
| 1600 | 2200 | 168.0 | 188 | 292 | 3 | 19.5 | **QJ 234** |
| 1400 | 2000 | 185.6 | 188 | 342 | 3 | 41 | **QJ 334** |
| 1700 | 2200 | 161.0 | 192 | 268 | 2 | 11 | **QJ 1036** |
| 1500 | 2000 | 175.1 | 198 | 302 | 3 | 20.5 | **QJ 236** |
| 1300 | 1800 | 196.1 | 198 | 362 | 3 | 48 | **QJ 336** |
| 1600 | 2200 | 168.0 | 202 | 278 | 2 | 11.5 | **QJ 1038** |
| 1400 | 2000 | 185.6 | 208 | 322 | 3 | 23 | **QJ 238** |
| 1300 | 1700 | 206.6 | 212 | 378 | 4 | 54.5 | **QJ 338** |
| 1500 | 2000 | 178.6 | 212 | 298 | 2 | 15 | **QJ 1040** |
| 1300 | 1800 | 196.1 | 218 | 342 | 3 | 27 | **QJ 240** |
| 1200 | 1600 | 217.1 | 222 | 398 | 4 | 61.5 | **QJ 340** |