# Other Special Bearings


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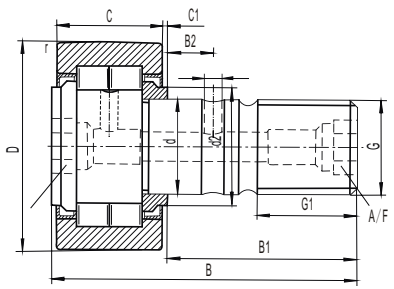
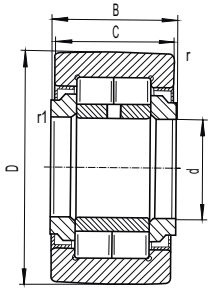
**Track Roller Bearings**

The yoke type track roller bearings and the screw track roller bearings are commonly used in delivery mechanism roller, cam following mechanism etc. The stud type track roller can operate under some severe conditions such as high speed, over loading and impact load.




Type NUKR




Type NUTR

| Bearing Designations | | Boundary Dimensions | | | | |
|---|---|---|---|---|---|---|
| | | d | D | B | C | $r_{s\,min}$ |
| | | mm | | | | |
| **NUKR35** | **NUKR35X** | 16 | 35 | 52 | 18 | 0.6 |
| **NUKR40** | **NUKR40X** | 18 | 40 | 58 | 20 | 1 |
| **NUKR52** | **NUKR52X** | 20 | 52 | 66 | 24 | 1 |
| **NUKR72** | **NUKR72X** | 24 | 72 | 80 | 29 | 1.1 |
| **NUKR80** | **NUKR80X** | 30 | 80 | 100 | 35 | 1.1 |
| **NUKR90** | **NUKR90X** | 30 | 90 | 100 | 35 | 1.1 |

| Limiting Speeds | Load Rating | | Mass |
|---|---|---|---|
| Grease | Dynamic | Static | |
| r/min | kN | | kg |
| 6500 | 15 | 16.8 | 0.164 |
| 5500 | 1834 | 22.6 | 0.242 |
| 3400 | 29 | 37.5 | 0.45 |
| 2100 | 44.5 | 60 | 1.02 |
| 1800 | 69 | 98 | 1.6 |
| 1800 | 79 | 117 | 1.96 |

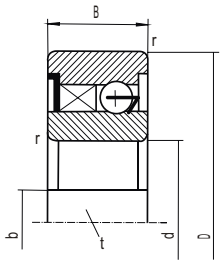
| Bearing Designations | | Boundary Dimensions | | | | | |
|---|---|---|---|---|---|---|---|
| | | d | D | B | C | $r_{s\,min}$ | $r_{1s\,min}$ |
| | | mm | | | | | |
| **NUTR15** | **NUTR15X** | 15 | 35 | 19 | 18 | 0.6 | 0.3 |
| **NUTR17** | **NUTR17X** | 17 | 40 | 21 | 20 | 1 | 0.3 |
| **NUTR25** | **NUTR25X** | 25 | 52 | 25 | 24 | 1 | 0.3 |
| **NUTR30** | **NUTR30X** | 30 | 62 | 29 | 28 | 1 | 0.3 |
| **NUTR40** | **NUTR40X** | 40 | 80 | 32 | 30 | 1.1 | 0.6 |
| **NUTR45** | **NUTR45X** | 45 | 85 | 32 | 30 | 1.1 | 0.6 |
| **NUTR50** | **NUTR50X** | 50 | 90 | 32 | 30 | 1.1 | 0.6 |

| Limiting Speeds | Load Rating | | Mass |
|---|---|---|---|
| Grease | Dynamic | Static | |
| r/min | kN | | kg |
| 6500 | 15 | 16.8 | 0.099 |
| 5500 | 18.4 | 22.6 | 0.147 |
| 3400 | 29 | 37.5 | 0.281 |
| 2600 | 40 | 50 | 0.465 |
| 1600 | 55 | 75 | 0.816 |
| 1400 | 56 | 78 | 0.883 |
| 1300 | 57 | 81 | 0.950 |

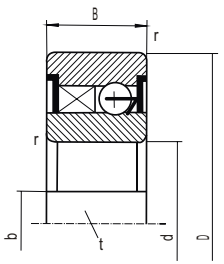
**One-Way Bearings**

One-way bearing can rotate freely in one direction, but deadlock in the other direction. There are many rolling shafts, needle rollers or balls in its metal shell, while its shape of rolling housing (holl) makes it only rotate in one direction, and have a large resistance in the other direction (so-called one way).

This kind of bearing is usually applied in textile machinery, printing machinery, automobile industry, household appliance and currency detector etc.

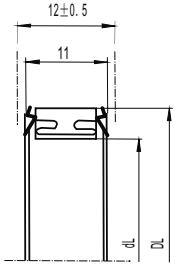



Type DX62···
Type DXN62···

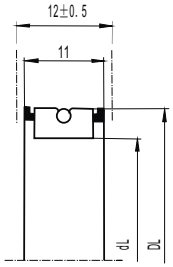



Type DX62···2RS
Type DXN62···2RS

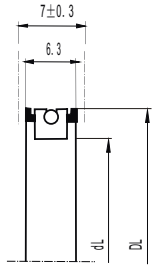
| Bearing Designations | | Boundary Dimensions | | | | | | Moment | Limiting Speeds | Load Rating | | Corresponding Designations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | d | D | B | r | b | t | | | Dynamic | Static | |
| | | mm | | | | | | Nm | r/min | kN | | |
| **DX6203** | **DX6203-RS** | 17 | 40 | 12 | 1.0 | 5 | 1.2 | 40 | 3700 | 6555 | 3175 | **FK6203** |
| **DXN6203** | **DXN6203-RS** | | | | | | | | | | | **FKN6203** |
| **DX6204** | **DX6204-2RS** | 20 | 47 | 14 | 1.5 | 6 | 1.6 | 55 | 3200 | 7325 | 3870 | **FK6204** |
| **DXN6204** | **DXN6204-2RS** | | | | | | | | | | | **FKN6204** |
| **DX6205** | **DX6205-RS** | 25 | 52 | 15 | 1.5 | 8 | 2 | 93 | 2800 | 7980 | 4570 | **FK6205** |
| **DXN6205** | **DXN6205-2RS** | | | | | | | | | | | **FKN6205** |
| **DX6206** | **DX6206-2RS** | 30 | 62 | 16 | 1.5 | 8 | 2 | 130 | 2400 | 8450 | 5290 | **FK6206** |
| **DXN6206** | **DXN6206-RS** | | | | | | | | | | | **FKN6206** |
| **DX6207** | **DX6207-RS** | 35 | 72 | 17 | 2.7 | 10 | 3.3 | 202 | 1900 | 9295 | 6700 | **FK6207** |
| **DXN6207** | **DXN6207-2RS** | | | | | | | | | | | **FKN6207** |
| **DX6208** | **DX6208-2RS** | 40 | 80 | 18 | 2.7 | 12 | 3.3 | 200 | 1900 | 9295 | 6700 | **FK6208** |
| **DXN6208** | **DXN6208-2RS** | | | | | | | | | | | **FKN6208** |
| **DXN6304** | **DXN6304-2RS** | 20 | 52 | 15 | 1.5 | - | - | 93 | 2800 | 7980 | 4570 | **Fk6204** |




Type DX400



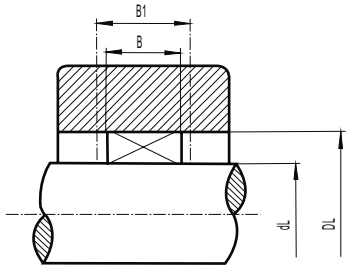

Type DX400Z




Type DX400Z2

| DX400 | | DX400Z | | DX400Z2 | |
|---|---|---|---|---|---|
| Designations | Moment | Designations | Moment | Designations | Moment |
| | Nm | | Nm | | Nm |
| - | - | - | - | **DX410 Z2** | 0.3 |
| - | - | **DX412 Z** | 3 | **DX412 Z2** | 1.8 |
| - | - | - | - | **DX413 Z2** | 2.9 |
| - | - | **DX414 Z** | 7 | **DX414 Z2** | 2.6 |
| - | - | **DX416 Z** | 12 | **DX416 Z2** | 7.6 |
| **DX422** | 48 | **DX422 Z** | 44 | **DX422 Z2** | 21 |
| **DX423** | 55 | **DX423 Z** | 48 | **DX423 Z2** | 24 |
| **DX425** | 68 | **DX425 Z** | 58 | **DX425 Z2** | 30 |
| **DX427** | 80 | **DX427 Z** | 66 | **DX427 Z2** | 36 |
| **DX428** | 87 | **DX428 Z** | 75 | **DX428 Z2** | 39 |
| **DX430** | 101 | **DX430 Z** | 87 | **DX430 Z2** | 46 |
| **DX432** | 116 | **DX432 Z** | 97 | **DX432 Z2** | 52 |
| **DX433** | 124 | **DX433 Z** | 107 | **DX433 Z2** | 56 |
| **DX435** | 141 | **DX435 Z** | 121 | **DX435 Z2** | 64 |
| **DX437** | 158 | **DX437 Z** | 137 | **DX437 Z2** | 71 |
| **DX438** | 168 | **DX438 Z** | 144 | **DX428 Z2** | 76 |
| **DX442** | 207 | **DX442 Z** | 178 | **DX442 Z2** | 93 |
| **DX443** | 217 | **DX443 Z** | 187 | **DX443 Z2** | 98 |
| **DX448** | 272 | **DX448 Z** | 235 | **DX448 Z2** | 122 |
| - | - | **DX450 Z** | 210 | **DX450 Z2** | 130 |
| **DX453** | 333 | **DX453 Z** | 281 | **DX453 Z2** | 146 |
| **DX458** | 400 | **DX458 Z** | 345 | **DX458 Z2** | 178 |
| **DX459** | 414 | **DX459 Z** | 357 | **DX459 Z2** | 181 |
| **DX463** | 472 | **DX463Z** | 407 | **DX463 Z2** | 202 |
| **DX468** | 550 | **DX468 Z** | 474 | **DX468 Z2** | 243 |
| **DX470** | 583 | **DX470 Z** | 502 | - | - |
| **DX473** | 633 | **DX473 Z** | 545 | - | - |
| **DX478** | 722 | **DX478 Z** | 622 | - | - |
| **DX488** | 914 | **DX488 Z** | 788 | - | - |

| Boundary Dimensions | | | | Limiting Speeds | Corresponding Designations |
|---|---|---|---|---|---|
| $d_L$ | $D_L$ | $d_L$ | $D_L$ | | |
| mm | | inch | | r/min | |
| 2 | 10 | 0.0787 | 0.3937 | 10000 | **FE410Z2** |
| 4 | 12 | 0.1575 | 0.4727 | 10000 | **FE412Z** |
| 5 | 13 | 0.1969 | 0.5118 | 9000 | **FE413Z2** |
| 6 | 14 | 0.2362 | 0.5512 | 8500 | **FE414Z** |
| 8 | 16 | 0.3150 | 0.6299 | 7500 | **FE416Z** |
| 14 | 22 | 0.5512 | 0.8661 | 5300 | **FE422** |
| 15 | 23 | 0.5906 | 0.9055 | 5200 | **FE423** |
| 17 | 25 | 0.6693 | 0.9843 | 4700 | **FE425** |
| 19 | 27 | 0.7480 | 1.0630 | 4400 | **FE427** |
| 20 | 28 | 0.7874 | 1.1024 | 4200 | **FE428** |
| 22 | 30 | 0.8611 | 1.1811 | 4000 | **FE430** |
| 24 | 32 | 0.9449 | 1.2598 | 3700 | **FE432** |
| 25 | 33 | 0.9843 | 1.2992 | 3600 | **FE433** |
| 27 | 35 | 1.0630 | 1.3780 | 3400 | **FE435** |
| 29 | 37 | 1.1417 | 1.4567 | 3200 | **FE437** |
| 30 | 38 | 1.1811 | 1.4960 | 3100 | **FE438** |
| 34 | 42 | 1.3386 | 1.6535 | 2800 | **FE442** |
| 35 | 43 | 1.3780 | 1.6929 | 2700 | **FE443** |
| 40 | 48 | 1.5748 | 1.8898 | 2500 | **FE448** |
| 42 | 50 | 1.6535 | 1.9685 | 2400 | **FE450Z** |
| 45 | 53 | 1.7717 | 2.0866 | 2200 | **FE453** |
| 50 | 58 | 1.9685 | 2.2835 | 2000 | **FE458** |
| 51 | 59 | 2.0079 | 2.3228 | 2000 | **FE459** |
| 55 | 63 | 2.1654 | 2.4803 | 1900 | **FE463** |
| 60 | 68 | 2.3622 | 2.6772 | 1750 | **FE468** |
| 62 | 70 | 2.4409 | 2.7559 | 1700 | **FE470** |
| 65 | 73 | 2.5590 | 2.8740 | 1600 | **FE473** |
| 70 | 78 | 2.7559 | 3.0709 | 1500 | **FE478** |
| 80 | 88 | 3.1496 | 3.4646 | 1300 | **FE488** |

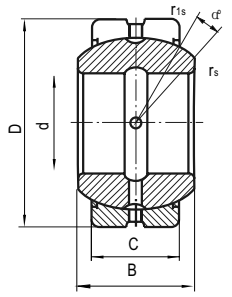



Type DX8000

| Designations | Moment | Boundary Dimensions | | | | | | Corresponding Designations |
|---|---|---|---|---|---|---|---|---|
| | | $d_L$ | $D_L$ | B | $d_L$ | $D_L$ | B | |
| | Nm | mm | | | inch | | | |
| **DX8038Z13** | 333 | 38.09 | 54.75 | 13 | 1.4996 | 2.1555 | 0.5118 | **FE8038Z13** |
| **DX8038Z16** | 479 | 38.09 | 54.75 | 16 | 1.4996 | 2.1555 | 0.6299 | **FE8038Z16** |
| **DX8038Z19** | 627 | 38.09 | 54.75 | 19 | 1.4996 | 2.1555 | 0.748 | **FE8038Z19** |
| **DX8040Z13** | 361 | 40.00 | 56.66 | 13 | 1.5748 | 2.2307 | 0.5118 | **FE8040Z13** |
| **DX8040Z16** | 517 | 40.00 | 56.66 | 16 | 1.5748 | 2.2307 | 0.6299 | **FE8040Z16** |
| **DX8040Z19** | 677 | 40.00 | 56.66 | 19 | 1.5748 | 2.2307 | 0.748 | **FE8040Z19** |
| **DX8044Z13** | 427 | 44.45 | 61.11 | 13 | 1.7500 | 2.4059 | 0.5118 | **FE8044Z13** |
| **DX8044Z16** | 614 | 44.45 | 61.11 | 16 | 1.7500 | 2.4059 | 0.6299 | **FE8044Z16** |
| **DX8044Z19** | 803 | 44.45 | 61.11 | 19 | 1.7500 | 2.4059 | 0.748 | **FE8044Z19** |
| **DX8049Z13** | 515 | 49.72 | 66.38 | 13 | 1.9574 | 2.6134 | 0.5118 | **FE8049Z13** |
| **DX8049Z16** | 741 | 49.72 | 66.38 | 16 | 1.9574 | 2.6134 | 0.6299 | **FE8049Z16** |
| **DX8049Z19** | 970 | 49.72 | 66.38 | 19 | 1.9574 | 2.6134 | 0.748 | **FE8049Z19** |
| **DX8054Z13** | 606 | 54.76 | 71.42 | 13 | 2.1559 | 2.6134 | 0.5118 | **FE8054Z13** |
| **DX8054Z16** | 874 | 54.76 | 71.42 | 16 | 2.1559 | 2.6134 | 0.6299 | **FE8054Z16** |
| **DX8054Z19** | 1140 | 54.76 | 71.42 | 19 | 2.1559 | 2.6134 | 0.748 | **FE8054Z19** |
| **DX8054Z25** | 1682 | 54.76 | 71.42 | 25 | 2.1559 | 2.6134 | 0.9843 | **FE8054Z25** |
| **DX8058Z19** | 1260 | 58.00 | 74.66 | 19 | 2.2835 | 2.9394 | 0.748 | **FE8058Z19** |
| **DX8068Z16** | 1266 | 68.00 | 84.66 | 16 | 2.6772 | 3.3331 | 0.6299 | **FE8068Z16** |
| **DX8072Z13** | 977 | 72.21 | 88.87 | 13 | 2.8429 | 3.4988 | 0.5118 | **FE8072Z13** |
| **DX8072Z16** | 1411 | 72.21 | 88.87 | 16 | 2.8429 | 3.4988 | 0.6299 | **FE8072Z16** |
| **DX8072Z19** | 1845 | 72.21 | 88.87 | 19 | 2.8429 | 3.4988 | 0.748 | **FE8072Z19** |
| **DX8072Z25** | 2715 | 72.21 | 88.87 | 25 | 2.8429 | 3.4988 | 0.6299 | **FE8072Z25** |
| **DX8079Z25** | 2619 | 79.69 | 96.36 | 25 | 3.1374 | 3.7937 | 0.748 | **FE8079Z25** |
| **DX8083Z25** | 3407 | 83.34 | 100.00 | 25 | 3.2811 | 3.9370 | 0.9843 | **FE8083Z25** |
| **DX8093Z19** | 2907 | 93.34 | 110.00 | 19 | 3.6748 | 4.3307 | 0.748 | **FE8093Z19** |
| **DX8103Z16** | 2674 | 103.23 | 119.89 | 16 | 4.0642 | 4.7201 | 0.6299 | **FE8103Z16** |
| **DX8103Z19** | 3322 | 103.23 | 119.89 | 19 | 4.0642 | 4.7201 | 0.748 | **FE8103Z19** |
| **DX8103Z25** | 4600 | 103.23 | 119.89 | 25 | 4.0642 | 4.7201 | 0.9843 | **FE8103Z25** |
| **DX8129Z25** | 6244 | 129.39 | 146.05 | 25 | 5.0941 | 5.7500 | 0.9843 | **FE8129Z25** |
| **DX8140Z25** | 6686 | 140.00 | 156.66 | 25 | 5.5118 | 6.1677 | 0.9843 | **FE8140Z25** |
| **DX8150Z25** | 7448 | 150.00 | 166.66 | 25 | 5.9055 | 6.5614 | 0.9843 | **FE8150Z25** |

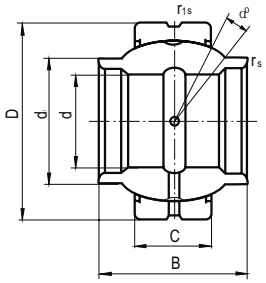
**Spherical Plain Bearings**

The sliding frictional component of radial spherical plain bearing is consist of outer ring with inner spherical surface and inner ring with outer spherical surface. This kind of bearings is suitable for the machineries, which have low requirement of concentricity, and relatively big press on working surface with low speed sway, slant or rotary motion. There are mainly two kinds of sliding frictional component of radial spherical plain bearings: steel on steel radial spherical plain bearings and self-lubricating spherical plain bearings.

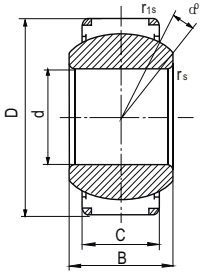



Type GE ··ES–2RS

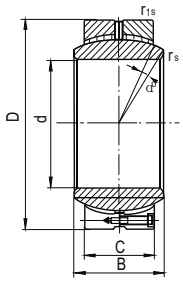
| Bearing Designations | | Boundary Dimensions | | | Boundary Dimensions | | | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | d | D | B | C | $r_s$ min | $r_{1s}$ min | $\alpha^\circ \approx$ | Dynamic | Static | |
| | | mm | | | mm | | | | kN | | kg |
| **GE20ES** | **GE20ES-2RS** | 20 | 35 | 16 | 12 | 0.3 | 0.3 | 9 | 30 | 146 | 0.066 |
| **GE45ES** | **GE45ES-2RS** | 45 | 68 | 32 | 25 | 0.6 | 1 | 7 | 127 | 637 | 0.427 |
| **GE60ES** | **GE60ES-2RS** | 60 | 90 | 44 | 36 | 1 | 1 | 6 | 245 | 1220 | 1.04 |
| **GE120ES** | **GE120ES-2RS** | 120 | 180 | 85 | 70 | 1 | 1 | 6 | 950 | 4750 | 8.05 |
| **GE200ES** | **GE200ES-2RS** | 200 | 290 | 130 | 100 | 1.1 | 1.1 | 7 | 2120 | 10600 | 28.03 |
| **GEG20ES** | **GEG20ES-2RS** | 20 | 42 | 25 | 16 | 0.3 | 0.6 | 17 | 48 | 240 | 0.153 |
| **GEG80ES** | **GEG80ES-2RS** | 80 | 130 | 75 | 50 | 1 | 1 | 14 | 488 | 2440 | 3.64 |
| **GEG140ES** | **GEG140ES-2RS** | 140 | 230 | 130 | 80 | 1 | 1 | 16 | 1360 | 6800 | 19.01 |
| **GEG200ES** | **GEG200ES-2RS** | 200 | 320 | 165 | 100 | 1.1 | 1.1 | 15 | 2320 | 11600 | 45.28 |
| **GEF20ES** | | 20 | 32 | 16 | 14 | 0.5 | 0.5 | 4 | 33 | 166 | 0.053 |
| **GEF65ES** | | 65 | 105 | 55 | 47 | 1 | 1 | 5 | 375 | 1870 | 2.05 |
| **GEF100ES** | | 100 | 160 | 88 | 75 | 1.5 | 1.5 | 5 | 956 | 4780 | 7.43 |
| **GEF150ES** | | 150 | 220 | 120 | 105 | 1.5 | 1.5 | 5 | 1820 | 9140 | 17.1 |
| **GEZ19ES** | **GEZ19ES-2RS** | 19.05 | 31.75 | 16.662 | 14.275 | 0.3 | 0.6 | 6 | 31 | 95 | 0.053 |
| **GEZ34ES** | **GEZ34ES-2RS** | 34.925 | 55.563 | 30.15 | 26.187 | 0.6 | 1 | 6 | 102 | 310 | 0.35 |
| **GEZ88ES** | **GEZ88ES-2RS** | 88.9 | 139.7 | 77.775 | 66.675 | 1 | 1 | 6 | 680 | 2040 | 4.8 |
| **GEZ107ES** | **GEZ107ES-2RS** | 107.95 | 168.275 | 94.463 | 80.95 | 1 | 1 | 6 | 1000 | 3000 | 8.41 |
| **GEZ152ES** | **GEZ152ES-2RS** | 152.4 | 222.25 | 120.65 | 104.775 | 1 | 1 | 5 | 1730 | 5200 | 17.5 |
| **GEGZ31ES** | **GEGZ31ES-2RS** | 31.75 | 61.913 | 35.306 | 28.575 | 0.6 | 1 | 15 | 125 | 375 | 0.454 |
| **GEGZ50ES** | **GEGZ50ES-2RS** | 50.8 | 90.488 | 52.578 | 42.85 | 0.6 | 1 | 14 | 280 | 850 | 1.68 |
| **GEGZ95ES** | **GEGZ95ES-2RS** | 95.25 | 158.75 | 94.945 | 76.2 | 1 | 1 | 14 | 900 | 2650 | 8.85 |
| **GEGZ139ES** | **GEGZ139ES-2RS** | 139.7 | 222.25 | 125.73 | 104.775 | 1 | 1 | 9 | 1730 | 5200 | 20.4 |
| **GEFZ19S** | | 19.05 | 36.51 | 19.05 | 15.06 | 0.3 | 1.12 | 9 | 28 | 141 | 0.093 |
| **GEFZ22S** | | 22.23 | 39.69 | 22.23 | 17.86 | 0.6 | 1.12 | 9.5 | 37 | 186 | 0.119 |
| **GEFZ25S** | | 25.4 | 44.45 | 25.4 | 20.24 | 0.6 | 1.12 | 10 | 49 | 245 | 0.175 |




Type GEEW ··· ES−2RS

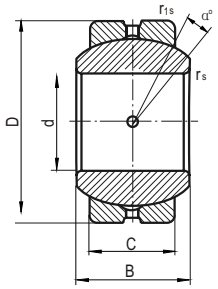



Type GEH ··· XT−2RS

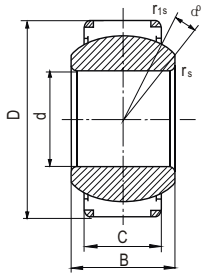



Type GEH ··· HC

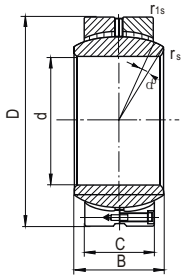
| Bearing Designations | | Boundary Dimensions | | | | Boundary Dimensions | | | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | d | D | B | C | C | $r_s$ min | $r_{1s}$ min | $\alpha^{\circ}\approx$ | Dynamic | Static | |
| | | mm | | | | mm | | | | kN | | kg |
| **GEEW20ES** | | 20 | 35 | 20 | 12 | 25 | 0.3 | 0.3 | 4 | 30 | 146 | 0.071 |
| **GEEW63ES** | | 63 | 95 | 63 | 36 | 71.5 | 1 | 1 | 4 | 253 | 1260 | 1.25 |
| **GEEW200ES** | | 200 | 290 | 200 | 100 | 221 | 1.1 | 1.1 | 4 | 2120 | 10600 | 32.1 |
| | **GEEM20ES-2RS** | 20 | 35 | 24 | 12 | 24 | 0.3 | 0.3 | 6 | 30 | 146 | 0.073 |
| | **GEEM40ES-2RS** | 40 | 62 | 38 | 22 | 45 | 0.6 | 1 | 4 | 99 | 495 | 0.35 |
| | **GEEM80ES-2RS** | 80 | 120 | 74 | 45 | 90 | 0.6 | 1 | 4 | 400 | 2000 | 2.5 |
| **GEWZ19ES** | **GEWZ19ES-2RS** | 19.05 | 31.75 | 28.575 | 14.275 | 23.368 | 0.3 | 0.6 | 5 | 31 | 95 | 0.064 |
| **GEWZ69ES** | **GEWZ69ES-2RS** | 69.85 | 111.125 | 104.775 | 52.375 | 85.852 | 1 | 1 | 5 | 415 | 1250 | 2.9 |
| **GEWZ152ES** | **GEWZ152ES-2RS** | 152.4 | 222.25 | 209.55 | 104.775 | 178.308 | 1 | 1 | 5 | 1730 | 5200 | 20.7 |
| **GE20XS/K** | | 20 | 32 | 16 | 14 | | 0.5 | 0.5 | 4 | 33 | 166 | 0.053 |
| **GE90XS/K** | | 90 | 140 | 76 | 65 | | 1 | 1 | 5 | 718 | 3590 | 4.72 |
| **GE150XS/K** | | 150 | 220 | 120 | 105 | | 1.5 | 1.5 | 5 | 1820 | 9140 | 17.1 |
| **GEBK20S** | | 20 | 46 | 25 | 18 | | 0.3 | 0.6 | 15 | 31 | 73 | 0.21 |
| **GEBK25S** | | 25 | 56 | 31 | 22 | | 0.6 | 0.6 | 15 | 47 | 110 | 0.39 |
| **GEBK30S** | | 30 | 66 | 37 | 25 | | 0.6 | 0.6 | 17 | 63 | 148 | 0.61 |
| **GE20C** | | 20 | 35 | 16 | 12 | | 0.3 | 0.3 | 9 | 31 | 78 | 0.066 |
| **GE30C** | | 30 | 47 | 22 | 18 | | 0.6 | 0.6 | 6 | 65 | 166 | 0.163 |
| **GEG20C** | | 20 | 42 | 25 | 16 | | 0.3 | 0.3 | 17 | 51 | 127 | 0.153 |
| **GEG30C** | | 30 | 55 | 32 | 20 | | 0.6 | 0.6 | 17 | 83 | 212 | 0.304 |




Type GEFZ···S



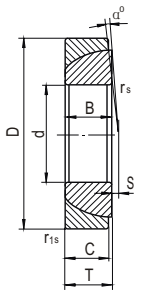

Type GEH···XT−2RS




Type GEH···HC

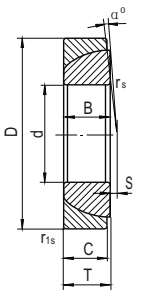
| Bearing Designations | | Boundary Dimensions | | | |
|---|---|---|---|---|---|
| | | d | D | B | C |
| | | mm | | | |
| | GEG20ET-2RS | 20 | 42 | 25 | 16 |
| | GEG200XT-2RS | 200 | 320 | 165 | 100 |
| | GEZ19ET-2RS | 19.05 | 31.75 | 16.662 | 14.275 |
| | GEZ152ET-2RS | 152.4 | 222.25 | 120.65 | 104.775 |
| GEH100XT | GEH100XT-2RS | 100 | 150 | 71 | 67 |
| GEH200XT | GEH200XT-2RS | 200 | 290 | 140 | 134 |
| GEH100HC | | 100 | 150 | 71 | 67 |
| GEH200HC | | 200 | 290 | 140 | 134 |
| GEH100HT | | 100 | 150 | 71 | 67 |
| GEH200HT | | 200 | 290 | 140 | 134 |
| GEFZ19S | (GEFZ19C) | 19.05 | 36.51 | 19.05 | 15.06 |
| GEFZ25 | (GEFZ25C) | 25.4 | 44.45 | 25.4 | 20.24 |

| Boundary Dimensions | | | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|
| $d_1$ max | $r_s$ min | $r_{1s}$ min | $\alpha^\circ \approx$ | Dynamic | Static | |
| mm | | | | kN | | kg |
| - | 0.3 | 0.6 | 17 | 68 | 137 | 0.153 |
| - | 1.1 | 1.1 | 15 | 3300 | 6550 | 45.28 |
| - | 0.3 | 0.6 | 6 | 45 | 92 | 0.053 |
| - | 1 | 1 | 5 | 2600 | 5240 | 17.5 |
| - | 1 | 1 | 2 | 1080 | 2170 | 4.51 |
| - | 1.1 | 1.1 | 2 | 4180 | 8370 | 33.5 |
| - | 1 | 1 | 2 | 810 | 1350 | 4.51 |
| - | 1.1 | 1.1 | 2 | 3130 | 5500 | 33.5 |
| - | 1 | 1 | 2 | 860 | 1750 | 4.51 |
| - | 1.1 | 1.1 | 2 | 3340 | 6740 | 33.5 |
| - | 0.3 | 1.12 | 9 | 28(40.8) | 141(102.1) | 0.093 |
| - | 0.6 | 1.12 | 10 | 49(69.4) | 245(173.5) | 0.175 |



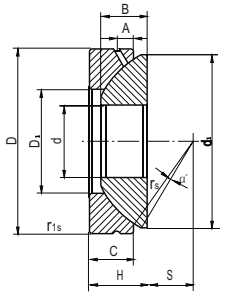

Type GAC ⋯T
Type GAC ⋯SK

| Bearing Designations | Boundary Dimensions | | | | |
|---|---|---|---|---|---|
| | d | D | B | C | T |
| | mm | | | | |
| **GAC25S** | 25 | 47 | 15 | 14 | 15 |
| **GAC45S** | 45 | 75 | 20 | 18 | 20 |
| **GAC70S** | 70 | 110 | 25 | 23 | 25 |
| **GAC100S** | 100 | 150 | 32 | 31 | 32 |
| **GAC150S** | 150 | 225 | 48 | 46 | 48 |
| **GAC200S** | 200 | 310 | 70 | 66 | 70 |
| **GAC25T** | 25 | 47 | 15 | 14 | 15 |
| **GAC50T** | 50 | 80 | 20 | 19 | 20 |
| **GAC85T** | 85 | 130 | 29 | 26.5 | 29 |
| **GAC120T** | 120 | 180 | 38 | 37 | 38 |
| **GAC160T** | 160 | 240 | 51 | 49 | 51 |
| **GAC200T** | 200 | 310 | 70 | 66 | 70 |
| **GACZ19S** | 19.05 | 31.75 | 10.41 | 7.87 | 11.18 |
| **GACZ44S** | 44.45 | 71.438 | 24.89 | 20.07 | 27.18 |
| **GACZ82S** | 82.55 | 130.175 | 47.24 | 39.24 | 51.56 |
| **GACZ101S** | 101.6 | 158.75 | 58.42 | 49.15 | 63.5 |
| **GACZ152S** | 152.4 | 222.25 | 78.74 | 66.42 | 85.72 |

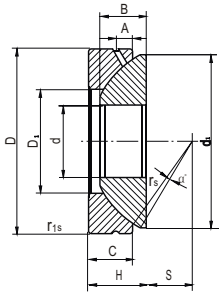



Type GAC ⋯T
Type GAC ⋯SK

| Boundary Dimensions | | | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|
| S | A | $r_s$ $r_{1s}$ min | $\alpha^\circ \approx$ | Dynamic | Static | |
| mm | | | | kN | | kg |
| 0.6 | 7.5 | 1 | 2.5 | 50 | 250 | 0.148 |
| 3.5 | 10 | 1 | 3 | 108 | 540 | 0.416 |
| 7.2 | 12.5 | 1.1 | 2 | 206 | 1030 | 1.04 |
| 11.6 | 16 | 1.5 | 0.5 | 384 | 1923 | 2.34 |
| 20 | 20.5 | 3 | 1 | 850 | 4270 | 8.01 |
| 26 | 30 | 3 | 1.5 | 1680 | 8420 | 22.5 |
| 0.6 | - | 1 | 2.5 | 75 | 149 | 0.148 |
| 4.3 | - | 1 | 1.5 | 185 | 370 | 0.455 |
| 9.4 | - | 1.1 | 2 | 426 | 851 | 1.61 |
| 14.5 | - | 2 | 0.5 | 820 | 1630 | 3.97 |
| 20 | - | 3 | 1 | 1445 | 2990 | 9.42 |
| 26 | - | 3 | 1.5 | 2520 | 5040 | 22.5 |
| 1.79 | 3.18 | 1 | 6 | 16 | 83 | 0.038 |
| 4.72 | 8.33 | 2.54 | 6 | 99 | 499 | 0.458 |
| 9.04 | 16.66 | 4.6 | 5 | 364 | 1820 | 2.89 |
| 10.4 | 19.84 | 4.6 | 4.5 | 566 | 2830 | 5.26 |
| 16.1 | 34.8 | 4.6 | 4.5 | 1080 | 5400 | 17.37 |



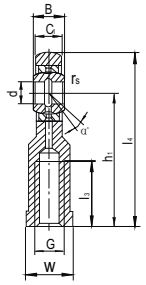

Type GX·· X



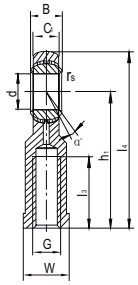

Type GX·· X

| Bearing Designations | Boundary Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | d | D | B | C | H | S |
| | mm | | | | | |
| **GX20S** | 20 | 55 | 14.5 | 13.8 | 20 | 12.5 |
| **GX45S** | 45 | 120 | 31 | 25.5 | 36.5 | 27.5 |
| **GX100S** | 100 | 210 | 51 | 46 | 59 | 45 |
| **GX200S** | 200 | 340 | 80 | 66 | 87 | 70 |
| **GX20T** | 20 | 55 | 14.5 | 13.8 | 20 | 12.5 |
| **GX50T** | 50 | 130 | 33 | 30.5 | 42.5 | 30 |
| **GX120T** | 120 | 230 | 53.5 | 50 | 64 | 52.5 |
| **GX200T** | 200 | 340 | 80 | 66 | 87 | 70 |

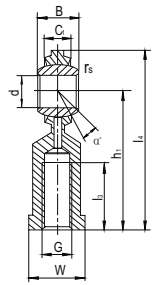
| Boundary Dimensions | | | | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|---|
| $d_1$ max | $D_1$ min | A | $r_s$ $r_{1s}$ min | $\alpha^{\circ}\approx$ | Dynamic | Static | |
| mm | | | | | kN | | kg |
| 50 | 31 | 6 | 1 | 5 | 84 | 425 | 0.246 |
| 110 | 67 | 11 | 1 | 6 | 486 | 2470 | 2.24 |
| 198 | 127 | 15 | 1.1 | 4 | 1300 | 6470 | 10.9 |
| 320 | 247 | 27 | 1.5 | 1 | 3070 | 15280 | 34.2 |
| 50 | 31 | - | 1 | 5 | 127 | 255 | 0.246 |
| 120 | 70 | - | 1 | 6 | 840 | 1670 | 3.14 |
| 220 | 145 | - | 1.1 | 3 | 2170 | 4560 | 13.9 |
| 320 | 247 | - | 1.5 | 1 | 4780 | 9150 | 34.2 |




Type SI···ES



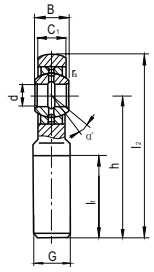

Type SIZP···S



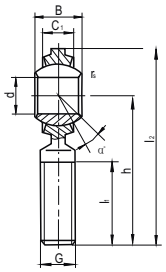

Type SIZJ ···

| Bearing Designations | Boundary Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | d | B | $C_1$ max | $d_2$ max | G 6H | $h_1$ | $l_3$ min | $l_4$ max |
| | mm | | | | | | | |
| **SI5E** | 5 | 6 | 4.5 | 21 | M5 | 30 | 11 | 40.5 |
| **SI8E** | 8 | 8 | 6.5 | 24 | M8 | 36 | 15 | 48 |
| **SI12E** | 12 | 10 | 8.5 | 34 | M12 | 50 | 18 | 67 |
| **SI15ES** | 15 | 12 | 10.5 | 40 | M14 | 61 | 21 | 81 |
| **SI40ES** | 40 | 28 | 24 | 92 | M39×3 | 142 | 65 | 188 |
| **SI80ES** | 80 | 55 | 48 | 180 | M64×4 | 230 | 85 | 320 |
| **SIBP5S** | 5 | 8 | 6 | 16 | M5 | 27 | 14 | 35 |
| **SIBP16S** | 16 | 21 | 15 | 38 | M16 | 64 | 33 | 83 |
| **SIBP22S** | 22 | 28 | 20 | 50 | M22×1.5 | 84 | 43 | 109 |
| **SIBP30S** | 30 | 37 | 25 | 70 | M30×2 | 110 | 56 | 145 |
| **SIZP4S** | 4.83 | 7.92 | 6.35 | 15.88 | 10-32 | 26.97 | 14.27 | 34.93 |
| **SIZP9S** | 9.53 | 12.7 | 10.31 | 25.4 | 3/8-24 | 41.28 | 23.8 | 53.98 |
| **SIZP15S** | 15.88 | 19.05 | 14.27 | 38.1 | 5/8-18 | 63.5 | 38.1 | 82.55 |
| **SIZP25S** | 25.4 | 34.93 | 25.4 | 69.85 | 5/4-12 | 104.78 | 53.98 | 139.7 |
| **SIZJ4** | 4.83 | 7.92 | 5.94 | 15.88 | 10-32 | 26.97 | 12.7 | 34.93 |
| **SIZJ9** | 9.53 | 12.7 | 9.12 | 25.4 | 3/8-24 | 41.28 | 19.05 | 53.98 |
| **SIZJ12** | 12.7 | 15.88 | 11.5 | 33.32 | 1/2-20 | 53.98 | 25.4 | 70.64 |
| **SIZJ19** | 19.05 | 22.23 | 15.06 | 44.45 | 3/4-16 | 73.03 | 34.93 | 95.25 |
| **SI5C** | 5 | 6 | 4.5 | 21 | M5 | 30 | 11 | 40.5 |
| **SI12C** | 12 | 10 | 8.5 | 34 | M12 | 50 | 18 | 67 |
| **SI17C** | 17 | 14 | 11.5 | 46 | M16 | 67 | 24 | 90 |
| **SI30C** | 30 | 22 | 20 | 73 | M30×2 | 110 | 45 | 146.5 |
| **SI35ET-2RS** | 35 | 25 | 22 | 82 | M36×3 | 125 | 60 | 166 |
| **SI45ET-2RS** | 45 | 32 | 28 | 102 | M42×3 | 145 | 65 | 196 |
| **SI60ET-2RS** | 60 | 44 | 39 | 135 | M52×3 | 175 | 70 | 242.5 |
| **SI80ET-2RS** | 80 | 55 | 48 | 180 | M64×4 | 230 | 85 | 320 |
| **SIJK5C** | 5 | 8 | 7.5 | 18 | M5 | 27 | 8 | 36 |
| **SIJK10C** | 10 | 14 | 11.5 | 30 | M10 | 43 | 15 | 58 |
| **SIJK22C** | 22 | 28 | 21 | 56 | M22×1.5 | 84 | 33 | 112 |
| **SIJK30C** | 30 | 37 | 27 | 70 | M30×1.5 | 110 | 45 | 145 |

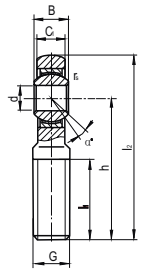
| Boundary Dimensions | | | | | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|---|---|
| $l_5$ max | W | $d_3$ max | $d_4$ max | $r_s$ min | $\alpha^{\circ}\approx$ | Dynamic | Static | |
| mm | | | | | | kN | | kg |
| 5 | 10 | 10 | 13 | 0.3 | 13 | 3.4 | 8.1 | 0.016 |
| 5 | 13 | 13 | 16 | 0.3 | 15 | 5.5 | 12.9 | 0.035 |
| 7 | 18 | 19 | 22 | 0.3 | 10 | 10 | 24.5 | 0.096 |
| 8 | 21 | 21 | 26 | 0.3 | 8 | 16 | 36 | 0.162 |
| 18 | 60 | 52 | 65 | 0.6 | 7 | 99 | 180 | 206 |
| 25 | 95 | 95 | 110 | 1 | 6 | 400 | 750 | 13.04 |
| 4 | 9 | 9 | 11 | 0.3 | 13 | 3.3 | 4.1 | 0.016 |
| 8 | 22 | 22 | 27 | 0.6 | 15 | 21 | 25 | 0.225 |
| 12 | 32 | 30 | 37 | 0.6 | 15 | 38 | 43 | 0.488 |
| 15 | 41 | 40 | 50 | 0.6 | 17 | 63 | 86 | 1.13 |
| 4.75 | 7.92 | 7.54 | 10.31 | 0.3 | 10 | 3.4 | 4.6 | 0.015 |
| 6.35 | 14.27 | 13.89 | 17.45 | 0.6 | 9 | 9.4 | 10 | 0.061 |
| 7.92 | 22.23 | 21.84 | 25.4 | 0.6 | 11 | 20 | 21 | 0.19 |
| 11.1 | 38.1 | 37.72 | 44.45 | 0.6 | 14 | 60 | 101 | 1 |
| 4.75 | 7.92 | 7.54 | 10.31 | 0.3 | 10 | 3.6 | 6.8 | 0.018 |
| 6.35 | 14.27 | 13.89 | 17.45 | 0.6 | 11 | 11 | 16 | 0.059 |
| 6.35 | 19.05 | 18.67 | 22.23 | 0.6 | 10 | 18 | 28 | 0.132 |
| 7.92 | 25.4 | 25.02 | 28.58 | 0.6 | 12 | 34 | 44 | 0.295 |
| 5 | 10 | 10 | 13 | 0.3 | 13 | 3.6 | 8.1 | 0.016 |
| 7 | 18 | 19 | 22 | 0.3 | 10 | 11 | 24.5 | 0.096 |
| 10 | 27 | 25 | 29 | 0.3 | 10 | 22 | 45 | 0.23 |
| 15 | 46 | 42 | 50 | 0.6 | 6 | 65 | 110 | 0.97 |
| 15 | 55 | 48 | 58 | 0.6 | 6 | 112 | 146 | 1.5 |
| 20 | 65 | 58 | 70 | 0.6 | 7 | 180 | 240 | 2.7 |
| 20 | 80 | 70 | 88 | 1 | 6 | 345 | 450 | 5.6 |
| 25 | 95 | 95 | 110 | 1 | 6 | 567 | 750 | 13 |
| 4 | 10 | 9 | 12 | 0.3 | 4 | 3.6 | 4.6 | 0.016 |
| 6.5 | 16 | 15 | 19 | 0.6 | 10 | 12 | 15 | 0.088 |
| 12 | 34 | 30 | 37 | 0.6 | 14 | 42 | 50 | 0.61 |
| 15 | 46 | 40 | 50 | 0.6 | 15 | 73 | 77 | 1.4 |




Type SA···ES




Type SAZJ ···

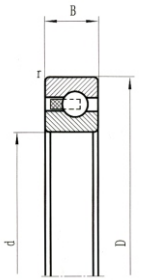



Type SAJK···C

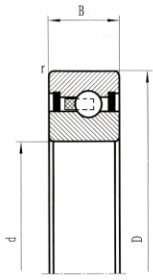
| Bearing Designations | Boundary Dimensions | | | | | | | | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | B | $C_1$ max | $d_2$ max | G 6g | h | $l_1$ min | $l_2$ max | $r_s$ min | $\alpha^\circ \approx$ | Dynamic | Static | |
| | mm | | | | | mm | | | | | kN | | kg |
| **SA5E** | 5 | 6 | 4.5 | 21 | M5 | 36 | 16 | 46.5 | 0.3 | 13 | 3.4 | 3.9 | 0.011 |
| **SA12E** | 12 | 10 | 8.5 | 34 | M12 | 54 | 28 | 71 | 0.3 | 10 | 10 | 23 | 0.066 |
| **SA15ESD** | 15 | 12 | 10.5 | 40 | M14 | 63 | 34 | 83 | 0.3 | 8 | 16 | 32 | 0.121 |
| **SA20ES** | 20 | 16 | 13.5 | 53 | M20×1.5 | 78 | 43 | 104.5 | 0.3 | 9 | 30 | 60 | 0.283 |
| **SA45ES** | 45 | 32 | 28 | 102 | M42×3 | 163 | 92 | 214 | 0.6 | 7 | 127 | 240 | 2.57 |
| **SA80ES** | 80 | 55 | 48 | 180 | M64×4 | 270 | 140 | 360 | 1 | 6 | 400 | 750 | 12.06 |
| **SABP5S** | 5 | 8 | 6 | 16 | M5 | 33 | 20 | 41 | 0.3 | 13 | 3.3 | 3.9 | 0.016 |
| **SABP10S** | 10 | 14 | 10.5 | 26 | M10 | 48 | 29 | 61 | 0.6 | 14 | 10 | 11 | 0.072 |
| **SABP18S** | 18 | 23 | 16.5 | 42 | M18×1.5 | 72 | 44 | 93 | 0.6 | 15 | 26 | 30 | 0.295 |
| **SABP22S** | 22 | 28 | 20 | 50 | M22×1.5 | 84 | 51 | 109 | 0.6 | 15 | 38 | 43 | 0.488 |
| **SABP30S** | 30 | 37 | 25 | 70 | M30×2 | 110 | 66 | 145 | 0.6 | 17 | 63 | 86 | 1.13 |
| **SAZP4S** | 4.83 | 7.92 | 6.35 | 15.88 | 10-32 | 31.75 | 19.05 | 39.7 | 0.3 | 10 | 3.4 | 3.8 | 0.013 |
| **SAZP9S** | 9.53 | 12.7 | 10.31 | 25.4 | 3/8-24 | 49.23 | 31.75 | 61.93 | 0.6 | 9 | 9.4 | 10 | 0.055 |
| **SAZP15S** | 15.88 | 19.05 | 14.27 | 38.1 | 5/8-18 | 66.68 | 41.28 | 85.73 | 0.6 | 11 | 20 | 21 | 0.18 |
| **SAZP25S** | 25.4 | 34.93 | 25.4 | 69.85 | 5/4-12 | 104.78 | 53.98 | 139.7 | 0.6 | 14 | 60 | 101 | 1.1 |
| **SAZJ4** | 4.83 | 7.92 | 5.94 | 15.88 | 10-32 | 31.75 | 19.05 | 39.7 | 0.3 | 10 | 3.6 | 3.8 | 0.014 |
| **SAZJ12** | 12.7 | 15.88 | 11.5 | 33.32 | 1/2-20 | 61.93 | 38.1 | 78.59 | 0.6 | 10 | 18 | 28 | 0.11 |
| **SAZJ19** | 19.05 | 22.23 | 15.06 | 44.45 | 3/4-16 | 73.03 | 44.45 | 95.25 | 0.6 | 12 | 34 | 44 | 0.26 |
| **SA5C** | 5 | 6 | 4.5 | 21 | M5 | 36 | 16 | 46.5 | 0.3 | 13 | 3.6 | 3.9 | 0.011 |
| **SA12C** | 12 | 10 | 8.5 | 34 | M12 | 54 | 28 | 71 | 0.3 | 10 | 11 | 23 | 0.066 |
| **SA17C** | 17 | 14 | 11.5 | 46 | M16 | 69 | 36 | 92 | 0.3 | 10 | 22 | 44 | 0.17 |
| **SA30C** | 30 | 22 | 20 | 73 | M30×2 | 110 | 65 | 146.5 | 0.6 | 6 | 65 | 110 | 0.84 |
| **SA35ET-2RS** | 35 | 25 | 22 | 82 | M36×3 | 140 | 82 | 181 | 0.6 | 6 | 112 | 146 | 1.4 |
| **SA45ET-2RS** | 45 | 32 | 28 | 102 | M42×3 | 163 | 92 | 214 | 0.6 | 7 | 180 | 240 | 2.5 |
| **SA60ET-2RS** | 60 | 44 | 39 | 135 | M52×3 | 210 | 115 | 277.5 | 1 | 6 | 345 | 450 | 5.7 |
| **SA80ET-2RS** | 80 | 55 | 48 | 180 | M64×4 | 270 | 140 | 360 | 1 | 6 | 567 | 750 | 12 |
| **SAJK5C** | 5 | 8 | 7.5 | 18 | M5 | 33 | 19 | 42 | 0.3 | 4 | 3.6 | 3.9 | 0.013 |
| **SAJK16C** | 16 | 21 | 15.5 | 42 | M16 | 66 | 37 | 87 | 0.6 | 14 | 23 | 29 | 0.22 |
| **SAJK22C** | 22 | 28 | 21 | 56 | M22×1.5 | 84 | 48 | 112 | 0.6 | 14 | 42 | 50 | 0.49 |
| **SAJK30C** | 30 | 37 | 27 | 70 | M30×2 | 110 | 66 | 145 | 0.6 | 15 | 73 | 77 | 1.1 |

**Thin Section Bearings**

This series of bearings have a very thin ring and a small cross section, and its features are light weight, low friction, high rigidity and relatively high rotation precision. It is especially suitable for compact light configuration with relatively high rigidity and bigger bore diameter. LYC thin-section bearings are used widely in Aircraft, Aerospace, Textile printer, Medical devices, Radar Communication, Astronomy instrumentation and Industrial robotics etc.

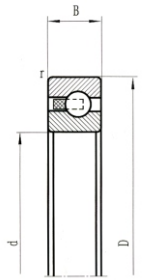



Type TD ···

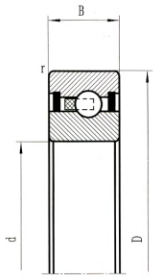



Type TD···2RS

| Bearing Designations | Boundary Dimensions | | | | | Limiting Speeds | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|---|---|---|---|
| | d | | D | B | $r_s$ min | Grease | Oil | Dynamic | Static | |
| | mm | inch | | mm | | r/min | | kN | | kg |
| **TD61100A** | 24.5 | 1 | 34.925 | 4.762 | 0. 4 | 18000 | 28000 | 2.5 | 1.76 | 0.012 |
| **TD61108A** | 38.1 | 1-1/2 | 47.625 | 4.762 | 0.4 | 9500 | 15000 | 2.8 | 2.32 | 0.018 |
| **TD62200A** | 50.8 | 2 | 63.5 | 6.35 | 0.65 | 7500 | 11000 | 4.5 | 3.9 | 0.041 |
| **TD63200A** | 50.8 | 2 | 66.675 | 7.938 | 1.1 | 8000 | 12000 | 6.4 | 5.2 | 0.065 |
| **TD62208A** | 63.5 | 2-1/2 | 76.2 | 6.35 | 0.65 | 5300 | 7500 | 4.9 | 4.65 | 0.05 |
| **TD63208A** | 63.5 | 2-1/2 | 79.375 | 7.938 | 1.1 | 6000 | 8500 | 6.95 | 6.2 | 0.079 |
| **TD62300A** | 76.2 | 3 | 88.9 | 6.35 | 0.65 | 4000 | 5600 | 5.2 | 5.4 | 0.059 |
| **TD63308A** | 88.9 | 3-1/2 | 104.775 | 7.938 | 1.1 | 3600 | 5000 | 7.8 | 8.15 | 0.107 |
| **TD64400A** | 101.6 | 4 | 120.65 | 9.525 | 1.1 | 3200 | 4500 | 10.4 | 11 | 0.178 |
| **TF65404-2RS-A** | 107.95 | 4-1/4 | 127 | 12.7 | 0.4 | 2000 | - | 10.6 | 11.6 | 0.267 |
| **TD67404A** | 107.95 | 4-1/4 | 146.05 | 19.05 | 2.1 | 4300 | 6000 | 29 | 26.5 | 0.816 |
| **TD63408M** | 114.3 | 4-1/2 | 130.175 | 7.938 | 1.1 | 2600 | 3800 | 8.5 | 10.2 | 0.149 |
| **TD66408A** | 114.3 | 4-1/2 | 139.7 | 12.7 | 1.6 | 3000 | 4300 | 16.3 | 17 | 0.361 |
| **TD62500M** | 127 | 5 | 139.7 | 6.35 | 0.65 | 2200 | 3400 | 6.2 | 8.5 | 0.104 |
| **TD64500A** | 127 | 5 | 146.05 | 9.525 | 1.1 | 2400 | 3600 | 11.2 | 13.2 | 0.219 |
| **TD66508A** | 139.7 | 5-1/2 | 165.1 | 12.7 | 1.6 | 2400 | 3600 | 17.6 | 20 | 0.433 |
| **TD68608A** | 139.7 | 5-1/2 | 190.5 | 25.4 | 2.1 | 3200 | 4500 | 46.5 | 45 | 1.89 |
| **TF65600-2RS-M** | 152.4 | 6 | 171.45 | 12.7 | 0.4 | 1300 | - | 11.8 | 15.6 | 0.394 |
| **TD67608A** | 165.1 | 6-1/2 | 203.2 | 19.05 | 2.1 | 2200 | 3400 | 33.5 | 36.5 | 1.18 |
| **TD68508A** | 165.1 | 6-1/2 | 215.9 | 25.4 | 2.1 | 2600 | 3800 | 50 | 51 | 2.19 |
| **TD62700M** | 177.8 | 7 | 190.5 | 6.35 | 0.65 | 1400 | 2000 | 6.95 | 11.6 | 0.144 |
| **TD64700A** | 177.8 | 7 | 196.85 | 9.525 | 1.1 | 1500 | 2200 | 12.5 | 18 | 0.331 |
| **TD66708M** | 190.5 | 7-1/2 | 215.9 | 12.7 | 1.6 | 1500 | 2200 | 19.6 | 26 | 0.641 |
| **TD68708A** | 190.5 | 7-1/2 | 241.3 | 25.4 | 2.1 | 2000 | 3200 | 53 | 57 | 2.48 |
| **TD63800M** | 203.2 | 8 | 219.075 | 7.938 | 1.1 | 1200 | 1800 | 10.4 | 17.3 | 0.257 |
| **TF65800-2RS-M** | 203.2 | 8 | 222.25 | 12.7 | 0.4 | 900 | - | 13.2 | 20 | 0.517 |
| **TD67900A** | 228.6 | 9 | 266.7 | 19.05 | 2.1 | 1400 | 2000 | 37.5 | 48 | 1.59 |
| **TD661000M** | 254 | 10 | 279.4 | 12.7 | 1.6 | 1100 | 1700 | 21.6 | 34 | 0.842 |
| **TD641100M** | 279.4 | 11 | 298.4 | 9.525 | 1.1 | 900 | 1400 | 14.6 | 27 | 0.511 |
| **TF651200-2RS-M** | 304.8 | 12 | 323.85 | 12.7 | 0.4 | 560 | - | 15 | 29 | 0.764 |
| **TD681400A** | 355.6 | 14 | 406.4 | 25.4 | 2.1 | 850 | 1300 | 65.5 | 98 | 4.38 |

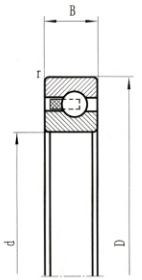



Type TD ···

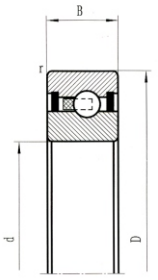



Type TD···2RS

| Bearing Designations | Boundary Dimensions | | | | |
|---|---|---|---|---|---|
| | d | | D | B | $r_s$ min |
| | mm | inch | mm | | |
| **TD681600A** | 406.4 | 16 | 457.2 | 25.4 | 2.1 |
| **TD681800M** | 457.2 | 18 | 508 | 25.4 | 2.1 |
| **TD72200M** | 50.8 | 2 | 63.5 | 6.35 | 0.65 |
| **TD73208M** | 63.5 | 2-1/2 | 79.375 | 7.938 | 1.1 |
| **TD72300M** | 76.2 | 3 | 88.9 | 6.35 | 0.65 |
| **TD73308M** | 88.9 | 3-1/2 | 104.775 | 7.938 | 1.1 |
| **TD74400M** | 101.6 | 4 | 120.65 | 9.525 | 11 |
| **TD76404M** | 107.95 | 4-1/4 | 133.35 | 12.7 | 1.6 |
| **TD72408M** | 114.3 | 4-1/2 | 127 | 6.35 | 0.65 |
| **TD73412M** | 120.65 | 4-3/4 | 136.525 | 7.938 | 1.1 |
| **TD74500M** | 127 | 5 | 146.05 | 9.525 | 1.1 |
| **TD76508M** | 139.7 | 5-1/2 | 165.1 | 12.7 | 1.6 |
| **TD77600M** | 152.4 | 6 | 190.5 | 19.05 | 2.1 |
| **TD78608M** | 165.1 | 6-1/2 | 215.9 | 25.4 | 2.1 |
| **TD73700M** | 177.8 | 7 | 193.675 | 7.938 | 1.1 |
| **TD77800M** | 203.2 | 8 | 241.3 | 19.05 | 2.1 |
| **TD78900M** | 228.6 | 9 | 279.4 | 25.4 | 2.1 |
| **TD771000M** | 254 | 10 | 292.1 | 19.05 | 2.1 |
| **TD771200M** | 304.8 | 12 | 342.9 | 19.05 | 2.1 |
| **TD781400M** | 355.6 | 14 | 406.4 | 25.4 | 2.1 |

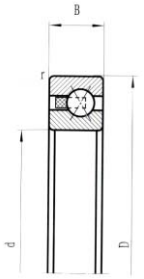



Type TD ···

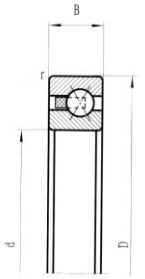



Type TD···2RS

| Limiting Speeds | | Load Ratings | | Mass |
|---|---|---|---|---|
| Grease | Oil | Dynamic | Static | |
| r/min | | kN | | kg |
| 700 | 1000 | 69.5 | 110 | 4.97 |
| 600 | 850 | 72 | 122 | 6.15 |
| 10000 | 15000 | 4.75 | 4.4 | 0.046 |
| 8000 | 11000 | 7.35 | 7.2 | 0.088 |
| 5600 | 7500 | 5.4 | 6.2 | 0.066 |
| 5000 | 6700 | 8.15 | 9.8 | 0.12 |
| 4500 | 6000 | 11.2 | 13.2 | 0.201 |
| 4500 | 6000 | 17 | 18.3 | 0.386 |
| 3400 | 4500 | 6.3 | 8.8 | 0.097 |
| 3400 | 4500 | 9.15 | 12.5 | 0.159 |
| 3400 | 4500 | 12.2 | 16.3 | 0.247 |
| 3200 | 4300 | 18.3 | 22.8 | 0.488 |
| 3400 | 4500 | 34.5 | 40.5 | 1.25 |
| 3400 | 4500 | 53 | 60 | 2.48 |
| 2200 | 3200 | 10.4 | 17.6 | 0.23 |
| 2200 | 3200 | 38 | 51 | 1.62 |
| 2200 | 3200 | 60 | 76.5 | 3.32 |
| 1700 | 2400 | 41.5 | 63 | 1.99 |
| 1300 | 1800 | 44 | 73.5 | 2.36 |
| 1200 | 1700 | 69.5 | 112 | 4.98 |

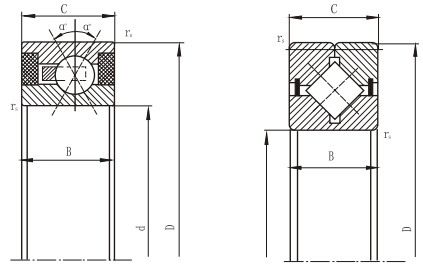



Type TDQJ ···




Type TDQJ ···

| Bearing Designations | Boundary Dimensions | | | | | Limiting Speeds | | Load Ratings | | Mass |
|---|---|---|---|---|---|---|---|---|---|---|
| | d | | D | B | $r_s$ min | Grease | Oil | Dynamic | Static | |
| | mm | inch | mm | | | r/min | | kN | | kg |
| **TDQJ1100A** | 25.4 | 1 | 34.925 | 4.762 | 0.4 | 10000 | 13000 | 2.55 | 1.86 | 0.012 |
| **TDQJ1108A** | 38.1 | 1-1/2 | 47.625 | 7.625 | 0.4 | 6300 | 7500 | 2.9 | 2.6 | 0.017 |
| **TDQJ2200A** | 50.8 | 2 | 63.5 | 6.35 | 0.65 | 4500 | 5300 | 4.65 | 4.3 | 0.04 |
| **TDQJ3208A** | 63.5 | 2-1/2 | 79.375 | 7.938 | 1.1 | 3600 | 4300 | 7.1 | 6.95 | 0.079 |
| **TDQJ2300A** | 76.2 | 3 | 88.9 | 6.35 | 0.65 | 2800 | 3400 | 5.3 | 6.3 | 0.058 |
| **TDQJ2308M** | 88.9 | 3-1/2 | 101.6 | 6.35 | 0.65 | 2400 | 3000 | 5.6 | 7.35 | 0.067 |
| **TDQJ4400A** | 101.6 | 4 | 120.65 | 9.525 | 1.1 | 2000 | 2600 | 10.6 | 12.7 | 0.176 |
| **TFQJ5404-2RS-A** | 107.95 | 4-1/4 | 127 | 12.7 | 0.4 | 1300 | - | 10.85 | 13.4 | 0.248 |
| **TDQJ6408A** | 114.3 | 4-1/2 | 139.7 | 12.7 | 1.6 | 1800 | 2200 | 16.6 | 19.3 | 0.358 |
| **TDQJ7412A** | 120.65 | 4-3/4 | 158.75 | 19.05 | 2.1 | 1700 | 2000 | 31 | 31.5 | 0.885 |
| **TDQJ8500A** | 127 | 5 | 177.8 | 25.4 | 2.1 | 1700 | 2000 | 48 | 45 | 1.72 |

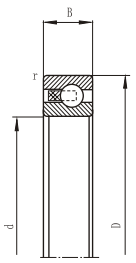


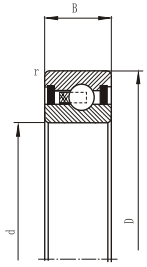

Type FPXU ·–2RZ




Type CRB ·–2RS

| Bearing Designations | Boundary Dimensions | | | | |
|---|---|---|---|---|---|
| | d | D | B | C | $r_s$ min |
| | mm | | | | |
| **FPXU400-2RZ** | 101.60 | 120.65 | 12.7 | 12.7 | 0.2 |
| **FPXU404-2RZ** | 107.95 | 127.00 | 12.7 | 12.7 | 0.2 |
| **FPXU408-2RZ** | 114.30 | 133.35 | 12.7 | 12.7 | 0.2 |
| **FPXU412-2RZ** | 120.65 | 139.70 | 12.7 | 12.7 | 0.2 |
| **FPXU500-2RZ** | 127.00 | 146.05 | 12.7 | 12.7 | 0.2 |
| **FPXU508-2RZ** | 139.70 | 158.75 | 12.7 | 12.7 | 0.2 |
| **FPXU600-2RZ** | 152.40 | 171.45 | 12.7 | 12.7 | 0.2 |
| **FPXU608-2RZ** | 165.10 | 184.15 | 12.7 | 12.7 | 0.2 |
| **FPXU700-2RZ** | 177.80 | 196.85 | 12.7 | 12.7 | 0.2 |
| **FPXU708-2RZ** | 190.50 | 209.55 | 12.7 | 12.7 | 0.2 |
| **FPXU800-2RZ** | 203.20 | 222.25 | 12.7 | 12.7 | 0.2 |
| **FPXU900-2RZ** | 228.60 | 247.65 | 12.7 | 12.7 | 0.2 |
| **FPXU1000-2RZ** | 254.00 | 273.05 | 12.7 | 12.7 | 0.2 |
| **FPXU1100-2RZ** | 279.40 | 298.45 | 12.7 | 12.7 | 0.2 |
| **FPXU1200-2RZ** | 304.80 | 323.85 | 12.7 | 12.7 | 0.2 |
| **CRB3010-2RS** | 30 | 55 | 10 | 10 | 0.5 |
| **CRB4010+2RS** | 40 | 65 | 10 | 10 | 0.5 |
| **CRB5015-2RS** | 50 | 80 | 15 | 15 | 0.5 |
| **CRB6015-2RS** | 60 | 90 | 15 | 15 | 1 |
| **CRB7015-2RS** | 70 | 100 | 15 | 15 | 1 |
| **CRB8020-2RS** | 80 | 130 | 20 | 20 | 1 |
| **CRB9020-2RS** | 90 | 140 | 20 | 20 | 1.5 |
| **CRB10020-2RS** | 100 | 150 | 20 | 20 | 1.5 |
| **CRB12025-2RS** | 120 | 180 | 25 | 25 | 2 |
| **CRB13025-2RS** | 130 | 190 | 25 | 25 | 2 |
| **CRB15025-2RS** | 150 | 210 | 25 | 25 | 2 |
| **CRB20025-2RS** | 200 | 260 | 25 | 25 | 2.5 |
| **CRB25025-2RS** | 250 | 310 | 25 | 25 | 2.5 |
| **CRB30025-2RS** | 300 | 395 | 35 | 35 | 3 |
| **CRB40040-2RS** | 400 | 510 | 40 | 40 | 3.5 |
| **CRB50040-2RS** | 500 | 600 | 40 | 40 | 3.5 |




| Bearing Designations | Boundary Dimensions | | | Deformation max | Moment Ratings (low speed shaft) | Speeds | Mass |
|---|---|---|---|---|---|---|---|
| | d | D | B | | | | |
| | mm | | | | kg/m | r/min | kg |
| **904KAT2** | 18.8 | 25 | 4 | 0.2 | 0.2 | 3000 | 0.004 |
| **905KAT2** | 24 | 32 | 5 | 0.2 | 0.6 | 3000 | 0.008 |
| **806KAT2** | 30 | 40 | 6 | 0.3 | 1.6 | 3000 | 0.015 |
| **907KAT2** | 37 | 50 | 8 | 0.3 | 3 | 3000 | 0.04 |
| **809KAT2** | 45 | 60 | 9 | 0.4 | 5 | 3000 | 0.055 |
| **911KAT2** | 57 | 75 | 13 | 0.5 | 8.5 | 3000 | 0.08 |
| **812KAT2** | 60 | 80 | 13 | 0.5 | 12 | 3000 | 0.15 |
| **814KAT2** | 70 | 95 | 15 | 0.6 | 20 | 3000 | 0.19 |
| **815KAT2** | 75 | 100 | 15 | 0.6 | 25 | 3000 | 0.27 |
| **818KAT2** | 90 | 120 | 18 | 1.0 | 45 | 3000 | 0.37 |
| **822KAT2** | 110 | 150 | 24 | 1.0 | 80 | 3000 | 0.84 |
| **824KAT2** | 120 | 160 | 24 | 1.0 | 100 | 1500 | 0.88 |
| **826KAT2** | 130 | 175 | 26 | 1.0 | 120 | 1500 | 1.4 |
| **830KAT2** | 150 | 200 | 30 | 1.3 | 200 | 1500 | 1.8 |
| **832KAT2** | 160 | 220 | 35 | 1.3 | 250 | 1500 | 2.7 |
| **836KAT2** | 180 | 240 | 35 | 1.5 | 315 | 1500 | 2.95 |
| **838KAT2** | 190 | 250 | 40 | 1.5 | 350 | 1500 | 3.38 |
| **842KAT2** | 210 | 280 | 45 | 1.5 | 400 | 1500 | 5.51 |
| **844KAT2** | 220 | 300 | 45 | 1.5 | 500 | 1500 | 6.8 |