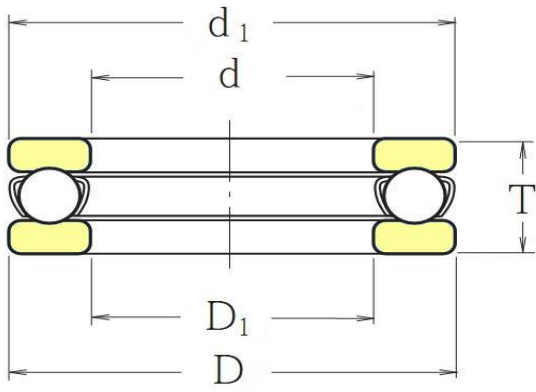
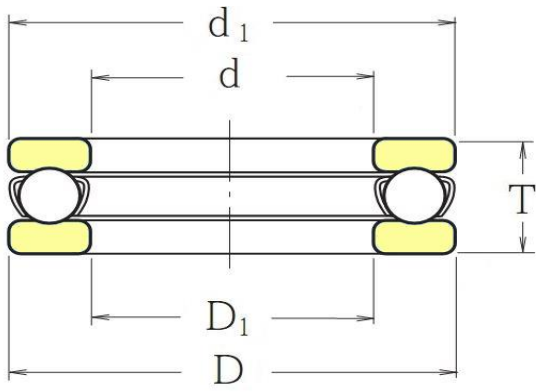


# SINGLE ROW THRUST BALL BEARINGS



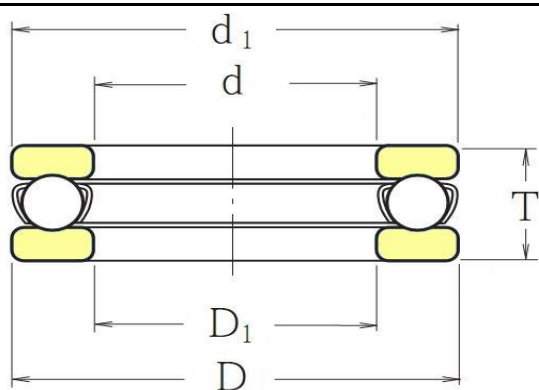
| Part Number | Dimensions (mm) |     |       |    |     | Load Ratings (N) |            | Limiting Speed |      | Weight (kg) |
|-------------|-----------------|-----|-------|----|-----|------------------|------------|----------------|------|-------------|
|             | d               | D   | T     | D1 | d1  | Dynamic Ca       | Static Coa | Grease         | Oil  |             |
|             | Bore            | OD  | Width |    |     |                  |            |                |      |             |
| 51100       | 10              | 24  | 9     | 11 | 24  | 9600             | 13800      | 6300           | 8600 | 0.210       |
| 51200       | 10              | 26  | 11    | 12 | 26  | 12600            | 16900      | 5800           | 7600 | 0.030       |
| 51101       | 12              | 26  | 9     | 13 | 26  | 10100            | 15200      | 6200           | 8400 | 0.023       |
| 51201       | 12              | 28  | 11    | 14 | 28  | 12800            | 18200      | 5500           | 7600 | 0.034       |
| 51102       | 15              | 28  | 9     | 16 | 28  | 10100            | 16400      | 6000           | 7800 | 0.024       |
| 51202       | 15              | 32  | 12    | 17 | 32  | 16100            | 24000      | 4600           | 6700 | 0.046       |
| 51103       | 17              | 30  | 9     | 18 | 30  | 10400            | 18000      | 6000           | 8100 | 0.026       |
| 51203       | 17              | 35  | 12    | 19 | 35  | 16500            | 26700      | 4700           | 6700 | 0.054       |
| 51104       | 20              | 35  | 10    | 21 | 35  | 13600            | 23500      | 4000           | 6800 | 0.040       |
| 51204       | 20              | 40  | 14    | 22 | 40  | 21900            | 36700      | 4100           | 5600 | 0.081       |
| 51105       | 25              | 42  | 11    | 26 | 42  | 19000            | 36800      | 4300           | 6400 | 0.060       |
| 51205       | 25              | 47  | 15    | 27 | 47  | 26800            | 48400      | 3500           | 4800 | 0.111       |
| 51305       | 25              | 52  | 18    | 27 | 52  | 33900            | 59000      | 3000           | 4500 | 0.176       |
| 51405       | 25              | 60  | 24    | 27 | 60  | 55500            | 85300      | 2600           | 3400 | 0.330       |
| 51106       | 30              | 47  | 11    | 32 | 47  | 20000            | 40200      | 4300           | 6100 | 0.069       |
| 51206       | 30              | 52  | 16    | 32 | 52  | 29200            | 57900      | 3200           | 4900 | 0.139       |
| 51306       | 30              | 60  | 21    | 32 | 60  | 41300            | 75300      | 2700           | 3800 | 0.269       |
| 51406       | 30              | 70  | 28    | 32 | 70  | 69300            | 120600     | 2100           | 3100 | 0.516       |
| 51107       | 35              | 52  | 12    | 37 | 52  | 19500            | 44000      | 3600           | 5200 | 0.850       |
| 51207       | 35              | 62  | 18    | 37 | 62  | 37700            | 75500      | 2800           | 4100 | 0.215       |
| 51307       | 35              | 68  | 24    | 37 | 68  | 54700            | 102900     | 2300           | 3400 | 0.383       |
| 51407       | 35              | 80  | 32    | 37 | 80  | 85100            | 153600     | 1800           | 2600 | 0.759       |
| 51108       | 40              | 60  | 13    | 42 | 60  | 26000            | 60700      | 3200           | 4600 | 0.125       |
| 51208       | 40              | 68  | 19    | 42 | 68  | 44900            | 97100      | 2600           | 3700 | 0.276       |
| 51308       | 40              | 78  | 26    | 42 | 78  | 68500            | 129900     | 2100           | 2800 | 0.548       |
| 51408       | 40              | 90  | 36    | 42 | 90  | 110700           | 203100     | 1700           | 2300 | 1.080       |
| 51109       | 45              | 65  | 14    | 47 | 65  | 27600            | 65900      | 2900           | 4600 | 0.148       |
| 51209       | 45              | 73  | 20    | 47 | 73  | 48000            | 104900     | 2400           | 3600 | 0.317       |
| 51309       | 45              | 85  | 28    | 47 | 85  | 79600            | 159800     | 1900           | 2800 | 0.684       |
| 51409       | 45              | 100 | 39    | 57 | 100 | 127300           | 235100     | 1600           | 2200 | 1.430       |
| 51110       | 50              | 70  | 14    | 52 | 70  | 28300            | 74900      | 2800           | 4300 | 0.161       |

# SINGLE ROW THRUST BALL BEARINGS



| Part Number | Dimensions (mm) |     |       |    |     | Load Ratings (N) |            | Limiting Speed |      | Weight (kg) |
|-------------|-----------------|-----|-------|----|-----|------------------|------------|----------------|------|-------------|
|             | d               | D   | T     | D1 | d1  | Dynamic Ca       | Static Coa | Grease         | Oil  |             |
|             | Bore            | OD  | Width |    |     |                  |            |                |      |             |
| 51210       | 50              | 78  | 22    | 52 | 78  | 47000            | 106900     | 2300           | 3200 | 0.378       |
| 51310       | 50              | 95  | 31    | 52 | 95  | 93800            | 196800     | 1700           | 2400 | 0.951       |
| 51410       | 50              | 110 | 43    | 52 | 110 | 141600           | 276100     | 1400           | 1900 | 1.900       |
| 51111       | 55              | 78  | 16    | 57 | 78  | 34500            | 92100      | 2700           | 3800 | 0.226       |
| 51211       | 55              | 90  | 25    | 57 | 90  | 66000            | 158100     | 2000           | 2700 | 0.608       |
| 51311       | 55              | 105 | 35    | 57 | 105 | 113200           | 234800     | 1500           | 2100 | 1.290       |
| 51411       | 55              | 120 | 48    | 57 | 120 | 175500           | 358500     | 1200           | 1700 | 2.520       |
| 51112       | 60              | 85  | 17    | 62 | 85  | 40200            | 111900     | 2400           | 3500 | 0.296       |
| 51212       | 60              | 95  | 26    | 62 | 95  | 72200            | 172100     | 1900           | 2700 | 0.676       |
| 51312       | 60              | 110 | 35    | 62 | 110 | 120900           | 265000     | 1500           | 2100 | 1.370       |
| 51412       | 60              | 130 | 51    | 62 | 130 | 210400           | 429500     | 1200           | 1700 | 3.120       |
| 51113       | 65              | 90  | 18    | 67 | 90  | 39900            | 113300     | 2400           | 3500 | 0.338       |
| 51213       | 65              | 100 | 27    | 67 | 100 | 73500            | 183800     | 1900           | 2700 | 0.767       |
| 51313       | 65              | 115 | 36    | 67 | 115 | 125600           | 279000     | 1500           | 2100 | 1.510       |
| 51413       | 65              | 140 | 56    | 68 | 140 | 223000           | 489000     | 1000           | 1600 | 3.960       |
| 51114       | 70              | 95  | 18    | 72 | 95  | 43000            | 125100     | 2300           | 3300 | 0.356       |
| 51214       | 70              | 105 | 27    | 72 | 105 | 74000            | 198900     | 1700           | 2600 | 0.793       |
| 51314       | 70              | 125 | 40    | 72 | 125 | 142900           | 326600     | 1400           | 1900 | 2.010       |
| 51414       | 70              | 150 | 60    | 73 | 150 | 246300           | 535600     | 1000           | 1400 | 4.860       |
| 51115       | 75              | 100 | 19    | 77 | 100 | 43000            | 135600     | 2100           | 3000 | 0.399       |
| 51215       | 75              | 110 | 27    | 77 | 110 | 75900            | 203500     | 1700           | 2500 | 0.874       |
| 51315       | 75              | 135 | 44    | 77 | 135 | 166000           | 392100     | 1300           | 1700 | 2.610       |
| 51415       | 75              | 160 | 65    | 78 | 160 | 257200           | 610800     | 900            | 1300 | 5.970       |
| 51116       | 80              | 105 | 19    | 82 | 105 | 43700            | 136000     | 2000           | 2800 | 0.422       |
| 51216       | 80              | 115 | 28    | 82 | 115 | 47400            | 214900     | 1700           | 2300 | 0.916       |
| 51316       | 80              | 140 | 44    | 82 | 140 | 171400           | 414300     | 1100           | 1800 | 2.720       |
| 51416       | 80              | 170 | 68    | 83 | 170 | 266500           | 590000     | 900            | 1200 | 7.770       |
| 51117       | 85              | 110 | 19    | 87 | 110 | 44300            | 145500     | 2100           | 2900 | 0.444       |
| 51217       | 85              | 125 | 31    | 88 | 125 | 95200            | 259600     | 1500           | 2200 | 1.250       |
| 51317       | 85              | 150 | 49    | 88 | 150 | 198500           | 470500     | 1100           | 1500 | 3.520       |
| 51417       | 85              | 180 | 72    | 88 | 177 | 287400           | 673200     | 800            | 1100 | 9.170       |

# SINGLE ROW THRUST BALL BEARINGS



| Part Number | Dimensions (mm) |     |       |     |     | Load Ratings (N) |            | Limiting Speed |      | Weight (kg) |
|-------------|-----------------|-----|-------|-----|-----|------------------|------------|----------------|------|-------------|
|             | d               | D   | T     | D1  | d1  | Dynamic Ca       | Static Coa | Grease         | Oil  |             |
|             | Bore            | OD  | Width |     |     |                  |            |                |      |             |
| 51118       | 90              | 120 | 22    | 92  | 120 | 57300            | 188100     | 1800           | 2600 | 0.687       |
| 51218       | 90              | 135 | 35    | 93  | 135 | 112500           | 324800     | 1300           | 1900 | 1.700       |
| 51318       | 90              | 155 | 50    | 93  | 155 | 197700           | 467800     | 1000           | 1500 | 3.740       |
| 51418       | 90              | 190 | 77    | 93  | 187 | 290600           | 747300     | 800            | 1100 | 11.000      |
| 51120       | 100             | 135 | 25    | 102 | 135 | 82700            | 259300     | 1600           | 2200 | 0.987       |
| 51220       | 100             | 150 | 38    | 103 | 150 | 144300           | 409600     | 1300           | 1700 | 2.290       |
| 51320       | 100             | 170 | 35    | 103 | 170 | 229100           | 592200     | 900            | 1400 | 4.880       |
| 51420       | 100             | 210 | 85    | 103 | 205 | 359400           | 960700     | 700            | 900  | 14.700      |
| 51122       | 110             | 145 | 25    | 112 | 145 | 84200            | 280000     | 1500           | 2200 | 1.070       |
| 51222       | 110             | 160 | 38    | 113 | 160 | 146600           | 441400     | 1200           | 1700 | 2.460       |
| 51322       | 110             | 190 | 63    | 113 | 187 | 265700           | 695200     | 800            | 1100 | 7.670       |
| 51124       | 120             | 155 | 25    | 122 | 155 | 85500            | 298700     | 1500           | 2100 | 1.110       |
| 51224       | 120             | 170 | 39    | 123 | 170 | 149100           | 463200     | 1100           | 1700 | 2.710       |
| 51324       | 120             | 210 | 70    | 123 | 205 | 288500           | 769900     | 700            | 1100 | 10.800      |
| 51126       | 130             | 170 | 30    | 132 | 170 | 101600           | 339000     | 1200           | 1800 | 1.730       |
| 51226       | 130             | 190 | 45    | 133 | 187 | 185900           | 556500     | 900            | 1400 | 4.220       |
| 51326       | 130             | 225 | 75    | 134 | 220 | 323200           | 939100     | 700            | 900  | 12.700      |
| 51128       | 140             | 180 | 31    | 142 | 178 | 102900           | 363800     | 1300           | 1700 | 1.900       |
| 51228       | 140             | 200 | 46    | 143 | 197 | 189600           | 588600     | 900            | 1300 | 4.770       |
| 51328       | 140             | 240 | 80    | 144 | 235 | 334000           | 1045500    | 700            | 900  | 15.300      |
| 51130       | 150             | 190 | 31    | 152 | 188 | 107200           | 389700     | 1200           | 1600 | 2.000       |
| 51230       | 150             | 215 | 50    | 153 | 212 | 210800           | 658900     | 900            | 1200 | 5.870       |
| 51330       | 150             | 250 | 80    | 154 | 245 | 357600           | 1116800    | 600            | 900  | 16.100      |
| 51132       | 160             | 200 | 31    | 162 | 198 | 111800           | 409300     | 1100           | 1600 | 2.100       |
| 51232       | 160             | 225 | 51    | 163 | 222 | 218600           | 713700     | 900            | 1100 | 6.320       |
| 51332       | 160             | 270 | 87    | 164 | 265 | 438000           | 1451300    | 600            | 800  | 20.700      |
| 51134       | 170             | 215 | 34    | 172 | 213 | 130400           | 497400     | 1000           | 1500 | 2.770       |
| 51334       | 170             | 280 | 87    | 174 | 275 | 452200           | 1545300    | 600            | 800  | 2.770       |
| 51136       | 180             | 225 | 34    | 183 | 222 | 134000           | 503200     | 1000           | 1400 | 7.810       |
| 51336       | 180             | 300 | 95    | 184 | 295 | 478900           | 1658100    | 500            | 800  | 27.500      |