

# 33000 Tapered Roller Bearing

Single Row Tapered Roller Bearing  
33000 Tapered Roller Bearing



| Designation | Principal dimensions [mm] |     |    | Basic load ratings [kN] |          | Pu   | Speed ratings [rpm] |                | Weight (Kg) | ISO335 | Dimensions [mm]   |      |    |      |     | Abutment and fillet dimensions [mm] |           |     |         |         |         |         |         |         |         | Value   |         |      |     |    |
|-------------|---------------------------|-----|----|-------------------------|----------|------|---------------------|----------------|-------------|--------|-------------------|------|----|------|-----|-------------------------------------|-----------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----|----|
|             | d1                        | D   | B  | dyc(Cr)                 | stc(Cor) |      | Speed Ratings       | Limiting Speed |             |        | Dimensions (ABMA) | d    | d1 | B    | C   | r1,2(min)                           | r3,4(min) | a   | da(max) | db(min) | Da(min) | Da(max) | Db(min) | Ca(min) | Cb(min) | ra(max) | rb(max) | e    | Y   | Yo |
|             |                           |     |    |                         |          |      |                     |                |             |        |                   |      |    |      |     |                                     |           |     |         |         |         |         |         |         |         |         |         |      |     |    |
| 33010/Q     | 50                        | 80  | 24 | 80                      | 102      | 11.4 | 6300                | 8000           | 0.45        | 2CE    | 50                | 64.9 | 24 | 19   | 1   | 1                                   | 17        | 56  | 56      | 72      | 74      | 76      | 4       | 5       | 1       | 1       | 0.31    | 1.9  | 1.1 |    |
| 33011/Q     | 55                        | 90  | 27 | 104                     | 137      | 15.3 | 5600                | 7000           | 0.67        | 2CE    | 55                | 72.9 | 27 | 21   | 1.5 | 1.5                                 | 19        | 63  | 62      | 81      | 83      | 86      | 5       | 6       | 1.5     | 1.5     | 0.31    | 1.9  | 1.1 |    |
| 33012/Q     | 60                        | 95  | 27 | 106                     | 143      | 16   | 5300                | 6700           | 0.71        | 2CE    | 60                | 77.1 | 27 | 21   | 1.5 | 1.5                                 | 20        | 67  | 67      | 85      | 88      | 90      | 5       | 6       | 1.5     | 1.5     | 0.33    | 1.8  | 1   |    |
| 33013/Q     | 65                        | 100 | 27 | 110                     | 153      | 17.3 | 5000                | 6300           | 0.78        | 2CE    | 65                | 82.5 | 27 | 21   | 1.5 | 1.5                                 | 21        | 72  | 72      | 89      | 93      | 96      | 5       | 6       | 1.5     | 1.5     | 0.35    | 1.7  | 0.9 |    |
| 33014       | 70                        | 110 | 31 | 130                     | 196      | 22.8 | 4300                | 5600           | 1.10        | 2CE    | 70                | 88.8 | 31 | 25.5 | 1.5 | 1.5                                 | 23        | 78  | 77      | 99      | 103     | 105     | 5       | 5.5     | 1.5     | 1.5     | 0.28    | 2.1  | 1.1 |    |
| 33015/Q     | 75                        | 115 | 31 | 134                     | 228      | 26   | 4000                | 5300           | 1.15        | 2CE    | 75                | 95   | 31 | 25.5 | 1.5 | 1.5                                 | 23        | 84  | 82      | 104     | 108     | 110     | 6       | 5.5     | 1.5     | 1.5     | 0.3     | 2    | 1.1 |    |
| 33016/Q     | 80                        | 125 | 36 | 168                     | 285      | 32   | 3600                | 5000           | 1.65        | 2CE    | 80                | 102  | 36 | 29.5 | 1.5 | 1.5                                 | 26        | 90  | 87      | 112     | 117     | 119     | 6       | 6.5     | 1.5     | 1.5     | 0.28    | 2.1  | 1.1 |    |
| 33017/Q     | 85                        | 130 | 36 | 183                     | 310      | 34.5 | 3600                | 4800           | 1.75        | 2CE    | 85                | 107  | 36 | 29.5 | 1.5 | 1.5                                 | 26        | 94  | 92      | 118     | 122     | 125     | 6       | 6.5     | 1.5     | 1.5     | 0.3     | 2    | 1.1 |    |
| 33018/Q     | 90                        | 140 | 39 | 216                     | 355      | 39   | 3200                | 4500           | 2.20        | 2CE    | 90                | 113  | 39 | 32.5 | 2   | 1.5                                 | 27        | 100 | 98      | 127     | 132     | 135     | 7       | 6.5     | 2       | 1.5     | 0.27    | 2.2  | 1.3 |    |
| 33019/Q     | 95                        | 145 | 39 | 220                     | 375      | 40.5 | 3200                | 4300           | 2.30        | 2CE    | 95                | 118  | 39 | 32.5 | 2   | 1.5                                 | 28        | 104 | 104     | 131     | 138     | 139     | 7       | 6.5     | 2       | 1.5     | 0.28    | 2.1  | 1.1 |    |
| 33020/Q     | 100                       | 150 | 39 | 224                     | 390      | 41.5 | 3000                | 4000           | 2.40        | 2CE    | 100               | 122  | 39 | 32.5 | 2   | 1.5                                 | 29        | 109 | 108     | 135     | 142     | 143     | 7       | 6.5     | 2       | 1.5     | 0.3     | 2    | 1.1 |    |
| 33021/Q     | 105                       | 160 | 43 | 246                     | 430      | 45.5 | 2800                | 3800           | 3.05        | 2DE    | 105               | 131  | 43 | 34   | 2.5 | 2                                   | 31        | 117 | 116     | 145     | 150     | 153     | 7       | 9       | 2       | 2       | 0.28    | 2.1  | 1.1 |    |
| 33022       | 110                       | 170 | 47 | 281                     | 500      | 53   | 2600                | 3600           | 3.85        | 2DE    | 110               | 139  | 47 | 37   | 2.5 | 2                                   | 34        | 123 | 121     | 152     | 160     | 161     | 7       | 10      | 2       | 2       | 0.28    | 2.1  | 1.1 |    |
| 33024       | 120                       | 180 | 48 | 292                     | 540      | 56   | 2600                | 3400           | 4.20        | 2DE    | 120               | 149  | 48 | 38   | 2.5 | 2                                   | 36        | 132 | 131     | 160     | 170     | 171     | 6       | 10      | 2       | 2       | 0.3     | 2    | 1.1 |    |
| 33030       | 150                       | 225 | 59 | 457                     | 865      | 86.5 | 2000                | 2600           | 8.15        | 2EE    | 150               | 188  | 59 | 46   | 3   | 2.5                                 | 48        | 164 | 162     | 200     | 213     | 217     | 8       | 13      | 2.5     | 2       | 0.37    | 1.6  | 0.9 |    |
| 31330XJ2    | 150                       | 320 | 82 | 781                     | 1020     | 100  | 1400                | 2000           | 29.5        | 7GB    | 150               | 234  | 75 | 50   | 5   | 4                                   | 96        | 181 | 170     | 251     | 303     | 300     | 9       | 32      | 4       | 3       | 0.83    | 0.72 | 0.4 |    |