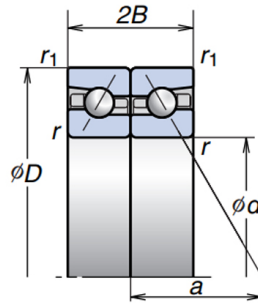


# High-Speed Angular Contact Thrust Ball Bearings



| Bearing  | Dimensiones(mm) |     |      |        |         | Basic Loading Ratings (KN) |      | Permissible axial load(KN) | Effective load center(a) | Limiting speeds [rpm] |       | Weight(kg) |
|----------|-----------------|-----|------|--------|---------|----------------------------|------|----------------------------|--------------------------|-----------------------|-------|------------|
|          | D               | d   | 2B   | r(min) | r1(min) | Cr                         | Cor  |                            |                          | Grease                | Oil   |            |
| 50BAR10S | 50              | 80  | 28.5 | 1      | 0.6     | 14.7                       | 27.7 | 18.4                       | 25.7                     | 11600                 | 14700 | 0.272      |
| 50BAR10H | 50              | 80  | 28.5 | 1      | 0.6     | 14.7                       | 27.7 | 12.6                       | 25.7                     | 13100                 | 16200 | 0.257      |
| 50BTR10S | 50              | 80  | 28.5 | 1      | 0.6     | 17.4                       | 31.5 | 21.5                       | 34.1                     | 10000                 | 13100 | 0.272      |
| 50BTR10H | 50              | 80  | 28.5 | 1      | 0.6     | 17.4                       | 31.5 | 15.5                       | 34.1                     | 11600                 | 14700 | 0.257      |
| 55BAR10S | 55              | 90  | 33   | 1.1    | 0.6     | 18.2                       | 35   | 23.4                       | 28.9                     | 10400                 | 13200 | 0.412      |
| 55BAR10H | 55              | 90  | 33   | 1.1    | 0.6     | 18.2                       | 35   | 16                         | 28.9                     | 11800                 | 14500 | 0.391      |
| 55BTR10S | 55              | 90  | 33   | 1.1    | 0.6     | 21.6                       | 40   | 26.4                       | 38.3                     | 9000                  | 11800 | 0.412      |
| 55BTR10H | 55              | 90  | 33   | 1.1    | 0.6     | 21.6                       | 40   | 19.7                       | 38.3                     | 10400                 | 13200 | 0.391      |
| 60BAR10S | 60              | 95  | 33   | 1.1    | 0.6     | 18.9                       | 38   | 25.5                       | 30.4                     | 9700                  | 12300 | 0.42       |
| 60BAR10H | 60              | 95  | 33   | 1.1    | 0.6     | 18.9                       | 38   | 17.5                       | 30.4                     | 11000                 | 13600 | 0.397      |
| 60BTR10S | 60              | 95  | 33   | 1.1    | 0.6     | 22.4                       | 43.5 | 25.8                       | 40.4                     | 8400                  | 11000 | 0.42       |
| 60BTR10H | 60              | 95  | 33   | 1.1    | 0.6     | 22.4                       | 43.5 | 21.5                       | 40.4                     | 9700                  | 12300 | 0.397      |
| 65BAR10S | 65              | 100 | 33   | 1.1    | 0.6     | 19.5                       | 41.5 | 27.7                       | 31.8                     | 9100                  | 11600 | 0.447      |
| 65BAR10H | 65              | 100 | 33   | 1.1    | 0.6     | 19.5                       | 41.5 | 19                         | 31.8                     | 10400                 | 12800 | 0.406      |
| 65BTR10S | 65              | 100 | 33   | 1.1    | 0.6     | 23.1                       | 47   | 27.3                       | 42.5                     | 7900                  | 10400 | 0.447      |
| 65BTR10H | 65              | 100 | 33   | 1.1    | 0.6     | 23.1                       | 47   | 23.3                       | 42.5                     | 9100                  | 11600 | 0.406      |
| 70BAR10S | 70              | 110 | 36   | 1.1    | 0.6     | 26.9                       | 55   | 37.5                       | 34.7                     | 8400                  | 10600 | 0.601      |
| 70BAR10H | 70              | 110 | 36   | 1.1    | 0.6     | 26.9                       | 55   | 25.5                       | 34.7                     | 9500                  | 11700 | 0.561      |
| 70BTR10S | 70              | 110 | 36   | 1.1    | 0.6     | 32                         | 63   | 35                         | 46.3                     | 7300                  | 9500  | 0.601      |
| 70BTR10H | 70              | 110 | 36   | 1.1    | 0.6     | 32                         | 63   | 31.5                       | 46.3                     | 8400                  | 10600 | 0.561      |
| 75BAR10S | 75              | 115 | 36   | 1.1    | 0.6     | 27.3                       | 58   | 39                         | 36.1                     | 7900                  | 10000 | 0.634      |
| 75BAR10H | 75              | 115 | 36   | 1.1    | 0.6     | 27.3                       | 58   | 26.7                       | 36.1                     | 9000                  | 11100 | 0.592      |
| 75BTR10S | 75              | 115 | 36   | 1.1    | 0.6     | 32.5                       | 65.5 | 36.5                       | 48.4                     | 6900                  | 9000  | 0.634      |
| 75BTR10H | 75              | 115 | 36   | 1.1    | 0.6     | 32.5                       | 65.5 | 33                         | 48.4                     | 7900                  | 10000 | 0.592      |

## High-Speed Angular Contact Thrust Ball Bearings

|          |    |     |      |     |     |      |      |      |      |      |       |       |
|----------|----|-----|------|-----|-----|------|------|------|------|------|-------|-------|
| 80BAR10S | 80 | 125 | 40.5 | 1.1 | 0.6 | 32   | 68.5 | 46.5 | 39.4 | 7400 | 9300  | 0.875 |
| 80BAR10H | 80 | 125 | 40.5 | 1.1 | 0.6 | 32   | 68.5 | 32   | 39.4 | 8300 | 10300 | 0.821 |
| 80BTR10S | 80 | 125 | 40.5 | 1.1 | 0.6 | 38   | 78   | 43   | 52.7 | 6400 | 8300  | 0.875 |
| 80BTR10H | 80 | 125 | 40.5 | 1.1 | 0.6 | 38   | 78   | 39   | 52.7 | 7400 | 9300  | 0.821 |
| 85BAR10S | 85 | 130 | 40.5 | 1.1 | 0.6 | 32.5 | 71.5 | 48.5 | 41.1 | 7000 | 8900  | 0.971 |
| 85BAR10H | 85 | 130 | 40.5 | 1.1 | 0.6 | 32.5 | 71.5 | 33   | 41.1 | 8000 | 9800  | 0.915 |