

Rillenkugellager Deep Groove Ball Bearings



Version: 8/2020

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DURABO Rillenkugellager

DURABO Deep Groove Ball Bearings

DURABO Rillenkugellager bieten eine qualitativ hochwertige Lösung für normale Einsatztemperaturen bis zu 150°C und schnellen Drehzahlen. Diese Lager haben folgende Eigenschaften:

- **Verschiedene Radialluftwerte**
Normalluft (CN), C3 und C4 als Standard
- **Genietetes Blechkäfig**
für hohe Stabilität bei geringer Reibung
- **Marken-Schmierstoff (geeignet bis 150°C)**
aus Europäischer Produktion
- **Wahlweise mit Metalldeckeln (2ZR) oder Dichtungen (2RS; bis 120°C)**
- **Breites Typensortiment**
6000 ... 6020
6200 ... 6220
6300 ... 6320

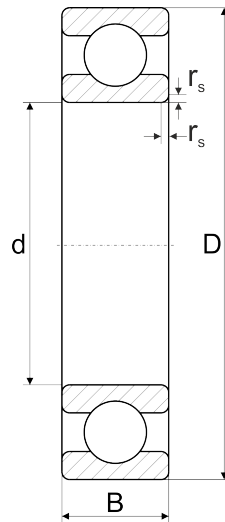
Auf Anfrage sind auch andere Größen, Radialluftwerte oder Sonderbefettungen verfügbar.

DURABO Deep Groove Ball Bearings offer a high quality solution for normal temperatures up to a maximum of 150°C and fast speeds. These bearings comprise the following properties:

- **Different radial clearance values**
Normal clearance (CN), C3 or C4 as standard
- **Riveted sheet steel cage**
provides high stability at low friction
- **High-quality lubricant (suitable up to 150°C)**
from European manufacturer
- **Optional with steel shields (2ZR) or rubber seals (2RS; up to 120°C)**
- **Broad assortment**
6000 ... 6020
6200 ... 6220
6300 ... 6320

Other sizes, radial clearance values and special lubrications are available on request.

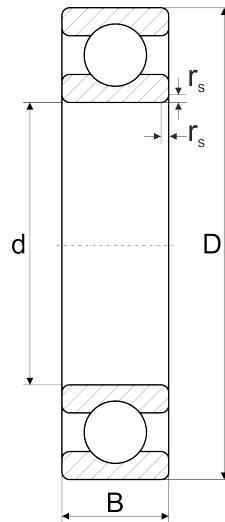
60xx



| Bezeichnung | Dimensionen | | | | Tragzahlen | | Max. Drehzahl | | | Gewicht |
|-------------|-------------|------|------|-----------------------|----------------|------------------|----------------------|----------------------|----------------------|---------|
| Code | Dimensions | | | | Load Ratings | | Max. Speed | | | Weight |
| DURABO | d | D | B | r _s min | C ₀ | C _{dyn} | Open | 2ZR | 2RS | ≈ [kg] |
| | [mm] | [mm] | [mm] | [mm] | [kN] | [kN] | [min ⁻¹] | [min ⁻¹] | [min ⁻¹] | |
| 6000 | 10 | 26 | 8 | 0,3 | 1,96 | 4,55 | 30 000 | 22 222 | 19 000 | 0,019 |
| 6001 | 12 | 28 | 8 | 0,3 | 2,36 | 5,10 | 26 000 | 20 000 | 18 000 | 0,020 |
| 6002 | 15 | 32 | 9 | 0,3 | 2,85 | 5,60 | 24 000 | 17 021 | 16 000 | 0,031 |
| 6003 | 17 | 35 | 10 | 0,3 | 3,25 | 6,00 | 21 000 | 15 385 | 14 000 | 0,038 |
| 6004 | 20 | 42 | 12 | 0,6 | 5,00 | 9,30 | 19 000 | 12 903 | 12 000 | 0,068 |
| 6005 | 25 | 47 | 12 | 0,6 | 5,85 | 10,0 | 17 000 | 11 111 | 10 000 | 0,080 |
| 6006 | 30 | 55 | 13 | 1,0 | 8,00 | 12,7 | 14 000 | 9 412 | 8 500 | 0,122 |
| 6007 | 35 | 62 | 14 | 1,0 | 10,2 | 16,0 | 12 000 | 8 247 | 7 500 | 0,157 |
| 6008 | 40 | 68 | 15 | 1,0 | 11,6 | 16,6 | 11 000 | 7 407 | 6 700 | 0,194 |
| 6009 | 45 | 75 | 16 | 1,0 | 14,3 | 20,0 | 10 000 | 6 667 | 6 000 | 0,247 |
| 6010 | 50 | 80 | 16 | 1,0 | 15,6 | 20,8 | 9 000 | 6 154 | 5 600 | 0,272 |
| 6011 | 55 | 90 | 18 | 1,1 | 21,2 | 28,5 | 8 500 | 5 517 | 5 000 | 0,397 |
| 6012 | 60 | 95 | 18 | 1,1 | 23,2 | 29,0 | 7 500 | 5 161 | 4 500 | 0,404 |
| 6013 | 65 | 100 | 18 | 1,1 | 25,0 | 30,5 | 7 000 | 4 848 | 4 300 | 0,411 |
| 6014 | 70 | 110 | 20 | 1,1 | 31,0 | 38,0 | 6 700 | 4 444 | 4 000 | 0,594 |
| 6015 | 75 | 115 | 20 | 1,1 | 33,5 | 39,0 | 6 300 | 4 211 | 3 800 | 0,639 |
| 6016 | 80 | 125 | 22 | 1,1 | 40,0 | 47,5 | 6 000 | 3 902 | 3 300 | 0,844 |
| 6017 | 85 | 130 | 22 | 1,1 | 43,0 | 49,0 | 5 600 | 3 721 | 3 100 | 0,880 |
| 6018 | 90 | 140 | 24 | 1,5 | 50,0 | 58,5 | 5 300 | 3 478 | 3 000 | 1,010 |
| 6019 | 95 | 145 | 24 | 1,5 | 54,0 | 60,0 | 5 000 | 3 333 | 2 800 | 1,070 |
| 6020 | 100 | 150 | 24 | 1,5 | 54,0 | 60,0 | 4 800 | 3 200 | 2 600 | 1,140 |

Anmerkung:
Remark:

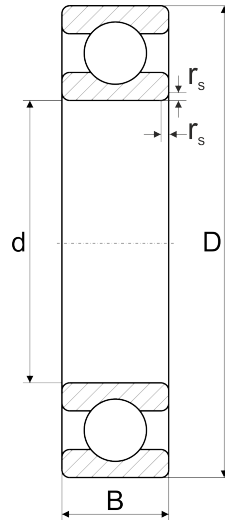
Das Gewicht gilt für das Lager ohne Schmierstoff und Deckel.
The weight applies for the bearing only without lubricant and shields.

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| Bezeichnung | Dimensionen | | | | Tragzahlen | | Max. Drehzahl | | | Gewicht |
|-------------|-------------|------|------|-----------------------|----------------|------------------|----------------------|----------------------|----------------------|---------|
| Code | Dimensions | | | | Load Ratings | | Max. Speed | | | Weight |
| DURABO | d | D | B | r _s min | C ₀ | C _{dyn} | Open | 2ZR | 2RS | ≈ [kg] |
| | [mm] | [mm] | [mm] | [mm] | [kN] | [kN] | [min ⁻¹] | [min ⁻¹] | [min ⁻¹] | |
| 6200 | 10 | 30 | 9 | 0,6 | 2,60 | 6,00 | 26 000 | 20 000 | 17 000 | 0,031 |
| 6201 | 12 | 32 | 10 | 0,6 | 3,10 | 6,95 | 24 000 | 18 182 | 16 000 | 0,037 |
| 6202 | 15 | 35 | 11 | 0,6 | 3,75 | 7,80 | 22 000 | 16 000 | 14 000 | 0,043 |
| 6203 | 17 | 40 | 12 | 0,6 | 4,75 | 9,50 | 20 000 | 14 035 | 12 000 | 0,065 |
| 6204 | 20 | 47 | 14 | 1,0 | 6,55 | 12,7 | 18 000 | 11 940 | 10 000 | 0,105 |
| 6205 | 25 | 52 | 15 | 1,0 | 7,80 | 14,0 | 15 000 | 10 390 | 9 000 | 0,128 |
| 6206 | 30 | 62 | 16 | 1,0 | 11,2 | 19,3 | 13 000 | 8 696 | 7 500 | 0,195 |
| 6207 | 35 | 72 | 17 | 1,1 | 15,3 | 25,5 | 11 000 | 7 477 | 6 300 | 0,291 |
| 6208 | 40 | 80 | 18 | 1,1 | 18,0 | 29,0 | 10 000 | 6 667 | 5 600 | 0,371 |
| 6209 | 45 | 85 | 19 | 1,1 | 20,4 | 31,0 | 9 000 | 6 154 | 5 300 | 0,429 |
| 6210 | 50 | 90 | 20 | 1,1 | 24,0 | 36,5 | 8 500 | 5 714 | 4 800 | 0,466 |
| 6211 | 55 | 100 | 21 | 1,5 | 29,0 | 43,0 | 7 500 | 5 161 | 4 300 | 0,616 |
| 6212 | 60 | 110 | 22 | 1,5 | 36,0 | 52,0 | 7 000 | 4 706 | 4 000 | 0,789 |
| 6213 | 65 | 120 | 23 | 1,5 | 41,5 | 60,0 | 6 300 | 4 324 | 3 600 | 0,980 |
| 6214 | 70 | 125 | 24 | 1,5 | 44,0 | 62,0 | 6 000 | 4 103 | 3 400 | 1,060 |
| 6215 | 75 | 130 | 25 | 1,5 | 49,0 | 65,5 | 5 600 | 3 902 | 3 200 | 1,170 |
| 6216 | 80 | 140 | 26 | 2,0 | 53,0 | 72,0 | 5 300 | 3 636 | 3 000 | 1,390 |
| 6217 | 85 | 150 | 28 | 2,0 | 64,0 | 83,0 | 5 000 | 3 404 | 2 800 | 1,780 |
| 6218 | 90 | 160 | 30 | 2,0 | 72,0 | 96,5 | 4 800 | 3 200 | 2 500 | 2,140 |
| 6219 | 95 | 170 | 32 | 2,1 | 81,5 | 108,0 | 4 500 | 3 019 | 2 400 | 2,610 |
| 6220 | 100 | 180 | 34 | 2,1 | 93,0 | 122,0 | 4 300 | 2 857 | 2 400 | 3,130 |

Anmerkung:
Remark:

Das Gewicht gilt für das Lager ohne Schmierstoff und Deckel.
The weight applies for the bearing only without lubricant and shields.

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| Bezeichnung | Dimensionen | | | | Tragzahlen | | Max. Drehzahl | | | Gewicht |
|-------------|-------------|------|------|-----------------------|----------------|------------------|----------------------|----------------------|----------------------|---------|
| Code | Dimensions | | | | Load Ratings | | Max. Speed | | | Weight |
| DURABO | d | D | B | r _s min | C ₀ | C _{dyn} | Open | 2ZR | 2RS | ≈ [kg] |
| | [mm] | [mm] | [mm] | [mm] | [kN] | [kN] | [min ⁻¹] | [min ⁻¹] | [min ⁻¹] | |
| 6300 | 10 | 35 | 11 | 0,6 | 3,45 | 8,15 | 24 000 | 17 778 | 15 000 | 0,055 |
| 6301 | 12 | 37 | 12 | 1,0 | 4,15 | 9,65 | 22 000 | 16 327 | 13 000 | 0,062 |
| 6302 | 15 | 42 | 13 | 1,0 | 5,40 | 11,4 | 20 000 | 14 035 | 12 000 | 0,088 |
| 6303 | 17 | 47 | 14 | 1,0 | 6,55 | 13,4 | 18 000 | 12 500 | 11 000 | 0,114 |
| 6304 | 20 | 52 | 15 | 1,1 | 7,80 | 16,0 | 16 000 | 11 111 | 9 500 | 0,151 |
| 6305 | 25 | 62 | 17 | 1,1 | 11,4 | 22,4 | 14 000 | 9 195 | 7 500 | 0,234 |
| 6306 | 30 | 72 | 19 | 1,1 | 16,3 | 29,0 | 11 000 | 7 843 | 6 300 | 0,355 |
| 6307 | 35 | 80 | 21 | 1,5 | 19,0 | 33,5 | 9 500 | 6 957 | 5 600 | 0,471 |
| 6308 | 40 | 90 | 23 | 1,5 | 25,0 | 42,5 | 8 500 | 6 154 | 5 000 | 0,640 |
| 6309 | 45 | 100 | 25 | 1,5 | 31,5 | 53,0 | 7 500 | 5 517 | 4 500 | 0,847 |
| 6310 | 50 | 110 | 27 | 2,0 | 38,0 | 62,0 | 7 000 | 5 000 | 4 000 | 1,100 |
| 6311 | 55 | 120 | 29 | 2,0 | 47,5 | 76,5 | 6 700 | 4 571 | 3 600 | 1,390 |
| 6312 | 60 | 130 | 31 | 2,1 | 52,0 | 81,5 | 6 000 | 4 211 | 3 400 | 1,750 |
| 6313 | 65 | 140 | 33 | 2,1 | 60,0 | 93,0 | 5 300 | 3 902 | 3 000 | 2,070 |
| 6314 | 70 | 150 | 35 | 2,1 | 68,0 | 104,0 | 5 000 | 3 636 | 2 800 | 2,510 |
| 6315 | 75 | 160 | 37 | 2,1 | 76,5 | 114,0 | 4 800 | 3 404 | 2 600 | 3,010 |
| 6316 | 80 | 170 | 39 | 2,1 | 86,5 | 122,0 | 4 500 | 3 200 | 2 500 | 3,580 |
| 6317 | 85 | 180 | 41 | 3,0 | 96,5 | 132,0 | 4 300 | 3 019 | 2 400 | 4,220 |
| 6318 | 90 | 190 | 43 | 3,0 | 102,0 | 134,0 | 4 000 | 2 857 | 2 300 | 4,900 |
| 6319 | 95 | 200 | 45 | 3,0 | 112,0 | 143,0 | 3 800 | 2 712 | 2 200 | 5,660 |
| 6320 | 100 | 215 | 47 | 3,0 | 134,0 | 163,0 | 3 600 | 2 540 | 2 100 | 6,990 |

Anmerkung:
Remark:

Das Gewicht gilt für das Lager ohne Schmierstoff und Deckel.
The weight applies for the bearing only without lubricant and shields.