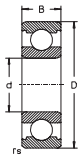
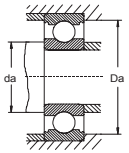
# Single row radial ball bearings - Metric




**Cages and shields**

- **Available**
- **Feasible** (minimum quantity)
- **Out of program**

| Dimensions d mm / inch | D mm / inch | B mm / inch | $r_s$ min mm / inch | Designation | Limiting speeds rpm x 1'000 Oil | Grease | Contact seals | Basic load ratings Dyn. Cr kN | Stat. Cor kN | Balls | Abutment dimensions da min mm / inch | Da max mm / inch | Mass ~ gr | Designation | Cage Y Shields Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage J Shields Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage T9H Shields Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage TBH Shields Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3** | 10 | 4 | 0.15 | **623** | 48 | 40 | 26 | 0.644 | 0.229 | 7x1/16" | 4.2 | 8.8 | 1.5 | **623** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| .118 | .394 | .157 | .006 | | | | | | | | .165 | .346 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **4** | 9 | 4 | 0.1 | **638/4** | 46 | 39 | 26 | 0.644 | 0.229 | 7x1/16" | 4.6 | 8.4 | 0.9 | **638/4** | ■ | | | ■ | ■ | | | | | | | | | | | | | | ■ | | | ■ | ■ | | | | | | | | | | | | | | |
| .157 | .354 | .157 | .004 | | | | | | | | .181 | .331 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 4 | 0.15 | **684/10** | 48 | 40 | 26 | 0.644 | 0.229 | 7x1/16" | 4.6 | 8.8 | 1.4 | **684/10** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | .394 | .157 | .006 | | | | | | | | .181 | .346 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 4 | 0.15 | **619/4** | 43 | 36 | 24 | 0.712 | 0.272 | 8x1/16" | 4.8 | 10.2 | 1.9 | **619/4** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | .433 | .157 | .006 | | | | | | | | .189 | .402 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 4 | 0.2 | **604** | 43 | 36 | 24 | 0.712 | 0.272 | 8x1/16" | 5.4 | 10.6 | 2.4 | **604** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | .472 | .157 | .008 | | | | | | | | .213 | .417 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 5 | 0.2 | **624** | 45 | 38 | 24 | 1.300 | 0.486 | 7x3/32" | 5.6 | 11.4 | 3.2 | **624** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | |
| | .512 | .197 | .008 | | | | | | | | .220 | .449 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 5 | 0.3 | **634** | 43 | 36 | 22 | 1.880 | 0.680 | 6x1/8" | 6.0 | 14.0 | 5.0 | **634** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | ■ | ■ | | ■ | | | | ■ | |
| | .630 | .197 | .012 | | | | | | | | .236 | .551 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **5** | 13 | 4 | 0.2 | **619/5** | 43 | 36 | 24 | 1.060 | 0.425 | 8x5/64" | 6.4 | 11.6 | 2.4 | **619/5** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .197 | .512 | .157 | .008 | | | | | | | | .252 | .457 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 5 | 0.2 | **624/5** | 45 | 38 | 24 | 1.300 | 0.486 | 7x3/32" | 6.4 | 11.4 | 3.0 | **624/5** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | .512 | .197 | .008 | | | | | | | | .252 | .449 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 5 | 0.2 | **605** | 42 | 35 | 22 | 1.300 | 0.486 | 7x3/32" | 7.0 | 12.5 | 3.8 | **605** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | .551 | .197 | .008 | | | | | | | | .276 | .492 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 5 | 0.3 | **625** | 43 | 36 | 22 | 1.880 | 0.680 | 6x1/8" | 7.0 | 14.0 | 4.8 | **625** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | ■ | ■ | | ■ | | | | ■ | |
| | .630 | .197 | .012 | | | | | | | | .276 | .551 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 6 | 0.3 | **635** | 38 | 32 | 22 | 2.460 | 1.050 | 8x1/8" | 7.0 | 17.0 | 8.7 | **635** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | ■ | | ■ | | |
| | .748 | .236 | .012 | | | | | | | | .276 | .669 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **6** | 13 | 3.5 | 0.15 | **618/6SD** | 40 | 33 | | 1.060 | 0.425 | 8x5/64" | 6.8 | 11.6 | 1.9 | **618/6SD** | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .236 | .512 | .138 | .006 | | | | | | | | .268 | .457 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 5 | 0.15 | **628/6** | 40 | 33 | 22 | 1.060 | 0.425 | 8x5/64" | 6.8 | 11.6 | 2.6 | **628/6** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | .512 | .197 | .006 | | | | | | | | .268 | .457 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 5 | 0.2 | **616** | 41 | 33 | 22 | 1.480 | 0.618 | 8x3/32" | 7.9 | 14.4 | 4.6 | **616** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | .630 | .197 | .008 | | | | | | | | .311 | .567 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 6 | 0.3 | **606** | 41 | 33 | 22 | 1.480 | 0.618 | 8x3/32" | 8.0 | 15.6 | 6.7 | **606** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | .669 | .236 | .012 | | | | | | | | .315 | .614 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 6 | 0.3 | **626** | 38 | 32 | 22 | 2.460 | 1.050 | 8x1/8" | 8.0 | 17.0 | 8.0 | **626** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | ■ | | ■ | | |
| | .748 | .236 | .012 | | | | | | | | .315 | .669 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 7 | 0.3 | **636** | 36 | 30 | 20 | 3.280 | 1.360 | 7x5/32" | 8.0 | 20.0 | 12.8 | **636** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | ■ | ■ | | ■ | | ■ | | | |
| | .866 | .276 | .012 | | | | | | | | .315 | .787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |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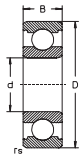
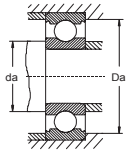
http:\\www.wib-bearings.com info@wib-bearings.com

## Single row radial ball bearings - Metric (Continued)




**Cages and shields**

- **Available**
- **Feasible** (minimum quantity)
- **Out of program**

| Dimensions d | D | B | $r_s$ min | Designation | Limiting speeds rpm x 1'000 Oil | Grease | Contact seals | Basic load ratings Dyn. Cr kN | Stat. Cor kN | Balls | Abutment dimensions da min | Da max | Mass ~ gr | Designation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm / inch | | | | | | | | | | | | | | |
| **7** | 17 | 5 | 0.3 | **619/7** | 43 | 36 | 20 | 1.610 | 0.719 | 9x3/32" | 9.4 | 14.6 | 5.6 | **619/7** |
| .276 | .669 | .197 | .012 | | | | | | | | .370 | .575 | | |
| | 19 | 6 | 0.3 | **607** | 38 | 32 | 22 | 2.460 | 1.050 | 8x1/8" | 9.0 | 17.0 | 7.5 | **607** |
| | .748 | .236 | .012 | | | | | | | | .354 | .669 | | |
| | 22 | 7 | 0.3 | **627** | 36 | 30 | 20 | 3.280 | 1.360 | 7x5/32" | 9.0 | 20.0 | 12.2 | **627** |
| | .866 | .276 | .012 | | | | | | | | .354 | .787 | | |
| | 26 | 9 | 0.3 | **637** | 36 | 30 | 19 | 3.670 | 1.640 | 8x5/32" | 9.0 | 24.0 | 19.9 | **637** |
| | 1.024 | .354 | .012 | | | | | | | | .354 | .945 | | |
| **8** | 16 | 4 | 0.2 | **618/8SD** | 43 | 36 | | 1.610 | 0.719 | 9x3/32" | 9.4 | 14.6 | 3.4 | **618/8SD** |
| .315 | .630 | .157 | .008 | | | | | | | | .370 | .575 | | |
| | 16 | 5 | 0.2 | **628/8** | 43 | 36 | 20 | 1.610 | 0.719 | 9x3/32" | 9.4 | 14.6 | 4.2 | **628/8** |
| | .630 | .197 | .008 | | | | | | | | .370 | .575 | | |
| | 16 | 6 | 0.2 | **638/8** | 43 | 36 | 20 | 1.610 | 0.719 | 9x3/32" | 9.4 | 14.6 | 4.9 | **638/8** |
| | .630 | .236 | .008 | | | | | | | | .370 | .575 | | |
| | 19 | 6 | 0.3 | **619/8** | 38 | 32 | 22 | 2.460 | 1.050 | 8x1/8" | 9.0 | 17.0 | 6.9 | **619/8** |
| | .748 | .236 | .012 | | | | | | | | .354 | .669 | | |
| | 22 | 7 | 0.3 | **608** | 36 | 30 | 20 | 3.280 | 1.360 | 7x5/32" | 10.0 | 20.0 | 11.6 | **608** |
| | .866 | .276 | .012 | | | | | | | | .394 | .787 | | |
| | 22 | 11 | 0.3 | **630/8** | 36 | 30 | 20 | 3.280 | 1.360 | 7x5/32" | 10.0 | 20.0 | 17.2 | **630/8** |
| | .866 | .433 | .012 | | | | | | | | .394 | .787 | | |
| | 24 | 8 | 0.3 | **628** | 36 | 30 | 19 | 3.670 | 1.640 | 8x5/32" | 10.0 | 22.0 | 16.8 | **628** |
| | .945 | .315 | .012 | | | | | | | | .394 | .866 | | |
| | 28 | 9 | 0.3 | **638** | 34 | 28 | 18 | 4.580 | 1.970 | 7x3/16" | 10.0 | 26.0 | 26.7 | **638** |
| | 1.102 | .354 | .012 | | | | | | | | .394 | 1.024 | | |
| **9** | 20 | 6 | 0.3 | **619/9** | 40 | 32 | 18 | 1.830 | 0.924 | 11x3/32" | 12.0 | 17.0 | 9.2 | **619/9** |
| .354 | .787 | .236 | .012 | | | | | | | | .472 | .669 | | |
| | 24 | 7 | 0.3 | **609** | 36 | 30 | 19 | 3.670 | 1.640 | 8x5/32" | 11.0 | 22.0 | 14.2 | **609** |
| | .945 | .276 | .012 | | | | | | | | .433 | .866 | | |
| | 26 | 8 | 0.3 | **629** | 34 | 28 | 18 | 4.580 | 1.970 | 7x3/16" | 11.0 | 24.0 | 20.6 | **629** |
| | 1.024 | .315 | .012 | | | | | | | | .433 | .945 | | |
| | 30 | 10 | 0.3 | **639** | 32 | 26 | 17 | 5.100 | 2.370 | 8x3/16" | 11.0 | 28.0 | 30.7 | **639** |
| | 1.181 | .394 | .012 | | | | | | | | .433 | 1.102 | | |

| Designation | Cage Y Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage J Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage T9H Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage TBH Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **619/7** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | ■ | ■ | | | | | | | | |
| **607** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | ■ | | ■ | | ■ |
| **627** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | ■ | | ■ | | | | |
| **637** | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | ■ | ■ | | | | | | | | |
| **618/8SD** | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **628/8** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **638/8** | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **619/8** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | ■ | | ■ | | ■ |
| **608** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | ■ | | ■ | | | | |
| **630/8** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | |
| **628** | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | | ■ | | | | ■ | | |
| **638** | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | | ■ | | | | ■ | | |
| **619/9** | | | | | | | | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | |
| **609** | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | | | | | | | | | | | | | | | | | | ■ | ■ | | ■ | | | | ■ | | |
| **629** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | ■ | | ■ | | ■ |
| **639** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | ■ | | ■ | | | | |

1 Basic load ratings and number of balls are different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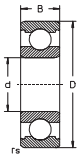
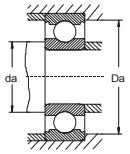
## Single row radial ball bearings - Metric (Continued)




**Cages and shields**

- **Available**
- **Feasible** (minimum quantity)
- **Out of program**

| Dimensions d | D | B | $r_s$ min | Designation | Limiting speeds rpm x 1'000 Oil | Grease | Contact seals | Basic load ratings Dyn. Cr kN | Stat. Cor kN | Balls | Abutment dimensions da min | Da max | Mass ~ gr | Designation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm / inch | | | | | | | | | | | | | | |
| **10** / .394 | 19 / .748 | 5 / .197 | 0.3 / .012 | **61800** | 40 | 32 | 18 | 1.830 | 0.924 | 11x3/32" | 12.0 / .472 | 17.0 / .669 | 6.0 | **61800** |
| | 19 / .748 | 6 / .236 | 0.3 / .012 | **62800** | 40 | 32 | 18 | 1.830 | 0.924 | 11x3/32" | 12.0 / .472 | 17.0 / .669 | 7.0 | **62800** |
| | 19 / .748 | 7 / .276 | 0.3 / .012 | **63800** | 40 | 32 | 18 | 1.830 | 0.924 | 11x3/32" | 12.0 / .472 | 17.0 / .669 | 8.1 | **63800** |
| | 22 / .866 | 6 / .236 | 0.3 / .012 | **61900** | 36 | 30 | 18 | 2.700 | 1.270 | 9x1/8" | 12.0 / .472 | 20.0 / .787 | 9.7 | **61900** |
| | 26 / 1.024 | 8 / .315 | 0.3 / .012 | **6000** | 34 | 28 | 18 | 4.580 | 1.970 | 7x3/16" | 12.0 / .472 | 24.0 / .945 | 19.6 | **6000** |
| | 26 / 1.024 | 12 / .472 | 0.3 / .012 | **63000** | 34 | 28 | 18 | 4.580 | 1.970 | 7x3/16" | 12.0 / .472 | 24.0 / .945 | 27.9 | |
| | 28 / 1.102 | 8 / .315 | 0.3 / .012 | **16100** | 34 | 28 | 18 | 4.580 | 1.970 | 7x3/16" | 12.0 / .472 | 26.0 / 1.024 | 25.0 | |
| | 30 / 1.181 | 9 / .354 | 0.6 / .024 | **6200** | 32 | 26 | 17 | 5.970 | 2.630 | 7x7/32" | 14.0 / .551 | 26.0 / 1.024 | 30.4 | **6200** |
| | 30 / 1.181 | 14 / .551 | 0.6 / .024 | **62200** | 32 | 26 | 17 | 5.970 | 2.630 | 7x7/32" | 14.0 / .551 | 26.0 / 1.024 | 44.5 | **62200** |
| **12** / .472 | 21 / .827 | 5 / .197 | 0.3 / .012 | **61801** | 36 | 30 | 18 | 1.920 | 1.040 | 12x3/32" | 14.0 / .551 | 19.0 / .748 | 6.8 | **61801** |
| | 21 / .827 | 6 / .236 | 0.3 / .012 | **62801** | 36 | 30 | 18 | 1.920 | 1.040 | 12x3/32" | 14.0 / .551 | 19.0 / .748 | 8.0 | **62801** |
| | 21 / .827 | 7 / .276 | 0.3 / .012 | **63801** | 36 | 30 | 18 | 1.920 | 1.040 | 12x3/32" | 14.0 / .551 | 19.0 / .748 | 9.2 | **63801** |
| | 24 / .945 | 6.0 / .236 | 0.3 / .012 | **61901** | 34 | 28 | 18 | 2.890 | 1.460 | 10x1/8" | 14.0 / .551 | 22.0 / .866 | 10.9 | **61901** |
| | 28 / 1.102 | 7 / .276 | 0.3 / .012 | **16001SD** | 32 | 26 | | 5.100 | 2.370 | 8x3/16" | 14.0 / .551 | 26.0 / 1.024 | 21.1 | **16001SD** |
| | 28 / 1.102 | 8 / .315 | 0.3 / .012 | **6001** | 32 | 26 | 17 | 5.100 | 2.370 | 8x3/16" | 14.0 / .551 | 26.0 / 1.024 | 21.9 | **6001** |
| | 28 / 1.102 | 12 / .472 | 0.3 / .012 | **63001** | 32 | 26 | 17 | 5.100 | 2.370 | 8x3/16" | 14.0 / .551 | 26.0 / 1.024 | 31.1 | **63001** |
| | 30 / 1.181 | 8 / .315 | 0.3 / .012 | **16101** | 32 | 26 | 17 | 5.100 | 2.370 | 8x3/16" | 14.0 / .551 | 28.0 / 1.102 | 27.6 | **16101** |
| | 32 / 1.260 | 10 / .394 | 0.6 / .024 | **6201** | 30 | 24 | 15 | 6.890 | 3.090 | 7x6mm | 16.0 / .630 | 28.0 / 1.102 | 39.4 | **6201** |
| | 32 / 1.260 | 14 / .551 | 0.3 / .012 | **62201** | 30 | 24 | 15 | 6.890 | 3.090 | 7x6mm | 16.0 / .630 | 28.0 / 1.102 | 52.7 | **62201** |

| Designation | Cage Y Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage J Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage T9H Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage TBH Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **61800** | | | | | | | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | □ | □ | □ | □ | □ | □ |
| **62800** | | | | | | | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | □ | □ | □ | □ | □ | □ |
| **63800** | | | | | | | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | □ | □ | □ | □ | □ | □ |
| **61900** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | □ | □ | ■ | | | ■ | ■ | ■ | ■ | □ | □ | | | | □ | □ | □ | □ | □ | □ |
| **6000** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ | □ | ■ | □ |
| **63000** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| **16100** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ | □ | ■ | □ |
| **6200** | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | ■ | ■ | □ | ■ | □ | □ | □ | ■ | □ |
| **62200** | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ |
| **61801** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | □ | □ | ■ | | | ■ | ■ | ■ | ■ | □ | □ | | | | □ | □ | □ | □ | □ | □ |
| **62801** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | □ | □ | ■ | | | ■ | ■ | ■ | ■ | □ | □ | | | | □ | □ | □ | □ | □ | □ |
| **63801** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | □ | □ | ■ | | | ■ | ■ | ■ | ■ | □ | □ | | | | □ | □ | □ | □ | □ | □ |
| **61901** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | □ | □ | ■ | | | ■ | ■ | ■ | ■ | □ | □ | | | | □ | □ | □ | □ | □ | □ |
| **16001SD** | ■ | | | | | | | | | | | | | | | | | | ■ | | | | | | | | | □ | | | | | | | | |
| **6001** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ | □ | ■ | □ |
| **63001** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| **16101** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ | □ | ■ | □ |
| **6201** | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | ■ | ■ | □ | ■ | □ | □ | □ | ■ | □ |
| **62201** | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | □ | ■ | ■ |

1 Basic load ratings and number of balls are different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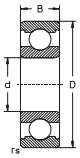
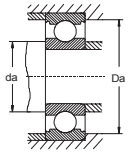
## Single row radial ball bearings - Metric (Continued)




**Cages and shields**

- **Available**
- **Feasible** (minimum quantity)
- **Out of program**

| Dimensions d | D | B | $r_s$ min | Designation | Limiting speeds rpm x 1'000 Oil | Grease | Contact seals | Basic load ratings Dyn. Cr kN | Stat. Cor kN | Balls | Abutment dimensions da min | Da max | Mass ~ gr | Designation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm / inch | | | | | | | | | | | mm / inch | | | |
| **15** / .591 | 24 / .945 | 5 / .197 | 0.3 / .012 | **61802** | 34 | 28 | 16 | 2.070 | 1.260 | 14x3/32" | 17.0 / .669 | 22.0 / .866 | 8.0 | **61802** |
| | 24 / .945 | 6 / .236 | 0.3 / .012 | **62802** | 34 | 28 | 16 | 2.070 | 1.260 | 14x3/32" | 17.0 / .669 | 22.0 / .866 | 9.4 | **62802** |
| | 24 / .945 | 7 / .276 | 0.3 / .012 | **63802** | 34 | 28 | 16 | 2.070 | 1.260 | 14x3/32" | 17.0 / .669 | 22.0 / .866 | 10.9 | **63802** |
| | 28 / 1.102 | 7.0 / .276 | 0.3 / .012 | **61902** | 32 | 26 | 15 | 4.330 | 2.250 | 10x5/32" | 17.0 / .669 | 26.0 / 1.024 | 14.8 | **61902** |
| | 32 / 1.260 | 8 / .315 | 0.3 / .012 | **16002** | 30 | 24 | 14 | 5.590 | 2.840 | 9x3/16" | 17.0 / .669 | 30.0 / 1.181 | 27.7 | **16002** |
| | 32 / 1.260 | 9 / .354 | 0.3 / .012 | **6002** | 30 | 24 | 14 | 5.590 | 2.840 | 9x3/16" | 17.0 / .669 | 30.0 / 1.181 | 30.7 | **6002** |
| | 32 / 1.260 | 13 / .512 | 0.3 / .012 | **63002** | 30 | 24 | 14 | 5.590 | 2.840 | 9x3/16" | 17.0 / .669 | 30.0 / 1.181 | 42.6 | **63002** |
| | 35 / 1.378 | 11 / .433 | 0.6 / .024 | **6202** | 26 | 20 | 13 | 7.730 | 3.760 | 8x6mm | 19.0 / .748 | 31.0 / 1.220 | 47.5 | **6202** |
| | 35 / 1.378 | 14 / .551 | 0.6 / .024 | **62202** | 26 | 20 | 13 | 7.730 | 3.760 | 8x6mm | 19.0 / .748 | 31.0 / 1.220 | 58.6 | **62202** |
| **17** / .669 | 26 / 1.024 | 5 / .197 | 0.3 / .012 | **61803** | 32 | 26 | 15 | 2.230 | 1.460 | 16x3/32" | 19.0 / .748 | 24.0 / .945 | 8.8 | **61803** |
| | 26 / 1.024 | 6 / .236 | 0.3 / .012 | **62803** | 32 | 26 | 15 | 2.230 | 1.460 | 16x3/32" | 19.0 / .748 | 24.0 / .945 | 10.4 | **62803** |
| | 26 / 1.024 | 7 / .276 | 0.3 / .012 | **63803** | 32 | 26 | 15 | 2.230 | 1.460 | 16x3/32" | 19.0 / .748 | 24.0 / .945 | 12.0 | **63803** |
| | 30 / 1.181 | 7.0 / .276 | 0.3 / .012 | **61903** | 30 | 24 | 14 | 4.600 | 2.550 | 11x5/32" | 19.0 / .748 | 28.0 / 1.102 | 16.0 | **61903** |
| | 35 / 1.378 | 8 / .315 | 0.3 / .012 | **16003** | 28 | 22 | 13 | 6.000 | 3.250 | 10x3/16" | 19.0 / .748 | 33.0 / 1.299 | 33.3 | **16003** |
| | 35 / 1.378 | 10 / .394 | 0.3 / .012 | **6003** | 28 | 22 | 13 | 6.000 | 3.250 | 10x3/16" | 19.0 / .748 | 33.0 / 1.299 | 40.5 | **6003** |
| | 35 / 1.378 | 14 / .551 | 0.3 / .012 | **63003** | 28 | 22 | 13 | 6.000 | 3.250 | 10x3/16" | 19.0 / .748 | 33.0 / 1.299 | 54.9 | **63003** |
| | 40 / 1.575 | 12 / .472 | 0.6 / .024 | **6203** | 22 | 18 | 12 | 9.550 | 4.760 | 8x17/64" | 21.0 / .827 | 36.0 / 1.417 | 69.5 | **6203** |

| Designation | Cage Y Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage J Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage T9H Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV | Cage TBH Shields: Open | Z | 2Z | RSR | 2RSR | RSF | 2RSF | RSV | 2RSV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **61802** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **62802** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **63802** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **61902** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **16002** | ■ | ■ | ■ | | | | | | | | | | | | | | | | ■ | ■ | | | | | ■ | ■ | | | | | | | | | | |
| **6002** | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | |
| **63002** | | | | | | | | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ |
| **6202** | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | ■ | ■ | | ■ | | | | |
| **62202** | ■ | ■ | ■ | ■ | ■ | | | | | ■ | ■ | ■ | ■ | ■ | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | ■ | ■ | ■ | ■ | ■ | | | |
| **61803** | | | | | | | | | | 1 | | | 1 | 1 | 1 | 1 | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **62803** | | | | | | | | | | 1 | | | 1 | 1 | 1 | 1 | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **63803** | | | | | | | | | | 1 | | | 1 | 1 | 1 | 1 | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **61903** | | | | | | | | | | ■ | | | ■ | ■ | ■ | ■ | | | ■ | | | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| **16003** | ■ | ■ | ■ | | | ■ | ■ | | | | | | | | | | | | ■ | ■ | | | | ■ | | | | | | | | | | | | |
| **6003** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | ■ |
| **63003** | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| **6203** | | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | | ■ | | | | ■ | |

1 Basic load ratings and number of balls are different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