

TIMKEN
Where You Turn

Performance At Every Turn
Timken® 6 Series Ball Bearings





Timken. Where You Turn.

All around the world, customers turn to Timken for innovations that move them ahead of the competition. Our innovations surrounding friction management and power transmission are invaluable. And we have played a role in virtually all major technologies that have shaped our age, from automobile travel to artificial hearts. You'll find our products wherever you turn—on land, sea and in space.

When customers turn to us, they are turning to a worldwide team of 25,000 associates. As the world's largest manufacturer of tapered roller bearings and mechanical seamless steel tubing, Timken has facilities in 27 countries. We are also leveraging our knowledge of friction management to offer a broader array of bearings, related products and integrated services. Our customers benefit by having Timken, a trusted name for more than 100 years,

help evaluate entire systems, not just individual components. This approach provides cost-effective solutions, while also helping to achieve specific objectives.

A Brand You Can Trust

Wherever we do business, in every part of the world, we strive to earn and maintain customer trust.

A long list of customer certifications and prestigious quality awards, provide solid evidence that customers turn to Timken for products they can trust.

| Base Part Number | Bore | OD | Width | Bearing corner radius | Dynamic Load Rating | Static Load Rating | Reference Speed | | Weight |
|------------------|------|-----|-------|-----------------------|---------------------|--------------------|-----------------|--------|--------|
| | (d) | (D) | (T) | (r) | (C) | (C ₀) | Grease | Oil | Kg |
| | mm | mm | mm | mm | kN | kN | rpm | rpm | |
| 6000 | 10 | 26 | 8 | 0,3 | 4,58 | 1,97 | 28 500 | 35 000 | 0,019 |
| 6001 | 12 | 28 | 8 | 0,3 | 5,10 | 2,37 | 25 500 | 32 000 | 0,021 |
| 6002 | 15 | 32 | 9 | 0,3 | 5,59 | 2,84 | 22 000 | 28 000 | 0,029 |
| 6003 | 17 | 35 | 10 | 0,3 | 6,00 | 3,25 | 20 000 | 25 000 | 0,039 |
| 6004 | 20 | 42 | 12 | 0,6 | 9,38 | 5,03 | 16 500 | 20 000 | 0,068 |
| 6005 | 25 | 47 | 12 | 0,6 | 10,07 | 5,83 | 14 500 | 18 000 | 0,080 |
| 6006 | 30 | 55 | 13 | 1 | 13,23 | 8,28 | 12 000 | 15 000 | 0,117 |
| 6007 | 35 | 62 | 14 | 1 | 15,98 | 10,28 | 10 500 | 13 000 | 0,154 |
| 6008 | 40 | 68 | 15 | 1 | 16,77 | 11,55 | 9 500 | 12 000 | 0,191 |
| 6009 | 45 | 75 | 16 | 1 | 20,98 | 15,15 | 8 500 | 10 500 | 0,244 |
| 6010 | 50 | 80 | 16 | 1 | 21,79 | 16,58 | 8 000 | 10 000 | 0,266 |
| 6011 | 55 | 90 | 18 | 1,1 | 28,27 | 21,25 | 7 200 | 9 000 | 0,386 |
| 6012 | 60 | 95 | 18 | 1,1 | 29,44 | 23,16 | 6 700 | 8 000 | 0,414 |
| 6013 | 65 | 100 | 18 | 1,1 | 30,54 | 25,15 | 6 300 | 7 500 | 0,442 |
| 6014 | 70 | 110 | 20 | 1,1 | 38,05 | 30,87 | 5 700 | 6 800 | 0,631 |
| 6015 | 75 | 115 | 20 | 1,1 | 39,52 | 33,47 | 5 400 | 6 500 | 0,651 |
| 6016 | 80 | 125 | 22 | 1,1 | 47,64 | 39,68 | 5 000 | 6 000 | 0,876 |
| 6017 | 85 | 130 | 22 | 1,1 | 49,53 | 42,98 | 4 800 | 5 800 | 0,934 |
| 6018 | 90 | 140 | 24 | 1,5 | 58,16 | 49,60 | 4 500 | 5 400 | 1,138 |
| 6019 | 95 | 145 | 24 | 1,5 | 60,36 | 53,87 | 4 300 | 5 200 | 1,189 |
| 6020 | 100 | 150 | 24 | 1,5 | 60,14 | 54,18 | 4 100 | 4 900 | 1,288 |
| 6021 | 105 | 160 | 26 | 2 | 72,30 | 65,77 | 3 900 | 4 700 | 1,563 |
| 6022 | 110 | 170 | 28 | 2 | 81,97 | 72,75 | 3 700 | 4 400 | 1,946 |
| 6024 | 120 | 180 | 28 | 2 | 84,94 | 79,23 | 3 400 | 4 000 | 2,111 |
| 6200 | 10 | 30 | 9 | 0,6 | 5,97 | 2,63 | 24 000 | 30 000 | 0,032 |
| 6201 | 12 | 32 | 10 | 0,6 | 6,89 | 3,09 | 22 000 | 28 000 | 0,037 |
| 6202 | 15 | 35 | 11 | 0,6 | 7,73 | 3,76 | 19 000 | 24 000 | 0,046 |
| 6203 | 17 | 40 | 12 | 0,6 | 9,55 | 4,76 | 17 000 | 21 000 | 0,066 |
| 6204 | 20 | 47 | 14 | 1 | 12,79 | 6,58 | 14 000 | 17 000 | 0,107 |
| 6205 | 25 | 52 | 15 | 1 | 14,02 | 7,88 | 12 000 | 14 500 | 0,131 |
| 6206 | 30 | 62 | 16 | 1 | 19,45 | 11,26 | 10 000 | 12 500 | 0,200 |
| 6207 | 35 | 72 | 17 | 1,1 | 25,67 | 15,30 | 8 800 | 11 000 | 0,290 |
| 6208 | 40 | 80 | 18 | 1,1 | 29,11 | 17,90 | 7 800 | 9 500 | 0,352 |
| 6209 | 45 | 85 | 19 | 1,1 | 32,71 | 20,46 | 7 300 | 8 800 | 0,418 |
| 6210 | 50 | 90 | 20 | 1,1 | 35,07 | 23,18 | 6 600 | 8 300 | 0,459 |
| 6211 | 55 | 100 | 21 | 1,5 | 43,38 | 29,22 | 6 100 | 7 500 | 0,616 |
| 6212 | 60 | 110 | 22 | 1,5 | 52,42 | 36,17 | 5 400 | 6 700 | 0,816 |
| 6213 | 65 | 120 | 23 | 1,5 | 57,21 | 40,00 | 5 000 | 6 200 | 1,018 |
| 6214 | 70 | 125 | 24 | 1,5 | 62,19 | 43,99 | 4 700 | 5 800 | 1,096 |
| 6215 | 75 | 130 | 25 | 1,5 | 67,36 | 48,18 | 4 400 | 5 400 | 1,191 |
| 6216 | 80 | 140 | 26 | 2 | 72,67 | 53,00 | 4 200 | 5 200 | 1,471 |
| 6217 | 85 | 150 | 28 | 2 | 83,97 | 61,89 | 3 900 | 4 800 | 1,786 |
| 6218 | 90 | 160 | 30 | 2 | 95,98 | 71,45 | 3 700 | 4 500 | 2,245 |
| 6219 | 95 | 170 | 32 | 2,1 | 108,70 | 81,70 | 3 500 | 4 300 | 2,689 |
| 6220 | 100 | 180 | 34 | 2,1 | 122,11 | 92,88 | 3 300 | 4 000 | 3,243 |
| 6222 | 110 | 200 | 38 | 2,1 | 144,05 | 117,25 | 3 000 | 3 600 | 4,336 |
| 6224 | 120 | 215 | 40 | 2,1 | 155,30 | 131,13 | 2 600 | 3 200 | 5,156 |
| 6300 | 10 | 35 | 11 | 0,6 | 8,10 | 3,44 | 20 000 | 25 000 | 0,054 |
| 6301 | 12 | 37 | 12 | 1 | 9,71 | 4,19 | 18 500 | 23 000 | 0,061 |
| 6302 | 15 | 42 | 13 | 1 | 11,33 | 5,35 | 15 500 | 20 000 | 0,083 |
| 6303 | 17 | 47 | 14 | 1 | 13,63 | 6,62 | 14 000 | 17 000 | 0,112 |
| 6304 | 20 | 52 | 15 | 1,1 | 15,94 | 7,88 | 12 000 | 15 000 | 0,144 |
| 6305 | 25 | 62 | 17 | 1,1 | 23,62 | 12,13 | 10 000 | 12 000 | 0,227 |
| 6306 | 30 | 72 | 19 | 1,1 | 28,16 | 15,82 | 8 400 | 10 000 | 0,352 |
| 6307 | 35 | 80 | 21 | 1,5 | 33,32 | 19,15 | 7 300 | 9 000 | 0,458 |
| 6308 | 40 | 90 | 23 | 1,5 | 40,72 | 23,94 | 6 700 | 8 000 | 0,630 |

| Base Part Number | Bore | OD | Width | Bearing corner radius | Dynamic Load Rating | Static Load Rating | Reference Speed | | Weight |
|------------------|------|-----|-------|-----------------------|---------------------|--------------------|-----------------|--------|--------|
| | (d) | (D) | (T) | (r) | (C) | (C ₀) | Grease | Oil | Kg |
| | mm | mm | mm | mm | kN | kN | rpm | rpm | |
| 6309 | 45 | 100 | 25 | 1,5 | 52,77 | 31,67 | 5 900 | 7 100 | 0,841 |
| 6310 | 50 | 110 | 27 | 2 | 62,00 | 38,19 | 5 300 | 6 500 | 1,089 |
| 6311 | 55 | 120 | 29 | 2 | 71,48 | 44,58 | 4 800 | 6 000 | 1,375 |
| 6312 | 60 | 130 | 31 | 2,1 | 81,85 | 52,04 | 4 500 | 5 500 | 1,720 |
| 6313 | 65 | 140 | 33 | 2,1 | 92,64 | 59,67 | 4 200 | 5 000 | 2,128 |
| 6314 | 70 | 150 | 35 | 2,1 | 104,13 | 68,04 | 3 800 | 4 500 | 2,554 |
| 6315 | 75 | 160 | 37 | 2,1 | 113,42 | 76,96 | 3 600 | 4 200 | 3,076 |
| 6316 | 80 | 170 | 39 | 2,1 | 122,94 | 86,50 | 3 400 | 4 000 | 3,537 |
| 6317 | 85 | 180 | 41 | 3 | 132,67 | 96,58 | 3 200 | 3 800 | 4,160 |
| 6318 | 90 | 190 | 43 | 3 | 142,61 | 107,23 | 3 000 | 3 600 | 4,993 |
| 6319 | 95 | 200 | 45 | 3 | 152,74 | 118,42 | 2 800 | 3 400 | 5,653 |
| 6320 | 100 | 215 | 47 | 3 | 173,17 | 140,89 | 2 600 | 3 200 | 6,984 |
| 6322 | 110 | 240 | 50 | 3 | 205,36 | 179,35 | 2 300 | 2 800 | 9,483 |
| 6405 | 25 | 80 | 21 | 1,5 | 36,12 | 19,45 | 8 500 | 10 000 | 0,530 |
| 6408 | 40 | 110 | 27 | 2 | 63,71 | 36,58 | 6 000 | 7 100 | 1,230 |
| 6409 | 45 | 120 | 29 | 2 | 77,21 | 45,20 | 5 600 | 6 700 | 1,538 |
| 6410 | 50 | 130 | 31 | 2,1 | 83,05 | 49,37 | 5 000 | 6 000 | 1,889 |
| 16002 | 15 | 32 | 8 | 0,3 | 5,59 | 2,84 | 22 000 | 28 000 | 0,027 |
| 16005 | 25 | 47 | 8 | 0,3 | 8,86 | 5,61 | 14 000 | 18 000 | 0,056 |
| 16008 | 40 | 68 | 9 | 0,3 | 12,62 | 9,65 | 9 500 | 12 000 | 0,125 |
| 16009 | 45 | 75 | 10 | 0,6 | 15,54 | 12,25 | 8 500 | 10 500 | 0,166 |
| 16010 | 50 | 80 | 10 | 0,6 | 15,99 | 13,23 | 8 000 | 10 000 | 0,179 |
| 16013 | 65 | 100 | 11 | 0,6 | 17,15 | 15,93 | 6 300 | 7 500 | 0,292 |
| 16014 | 70 | 110 | 13 | 0,6 | 26,79 | 23,55 | 5 700 | 6 800 | 0,427 |
| 16015 | 75 | 115 | 13 | 0,6 | 27,50 | 25,31 | 5 400 | 6 500 | 0,451 |
| 62200-2RS | 10 | 30 | 14 | 0,6 | 5,97 | 2,63 | 24 000 | 30 000 | 0,046 |
| 62201-2RS | 12 | 32 | 14 | 0,6 | 6,89 | 3,09 | 22 000 | 28 000 | 0,051 |
| 62202-2RS | 15 | 35 | 14 | 0,6 | 7,73 | 3,76 | 19 000 | 24 000 | 0,057 |
| 62203-2RS | 17 | 40 | 16 | 0,6 | 9,55 | 4,76 | 17 000 | 21 000 | 0,087 |
| 62204-2RS | 20 | 47 | 18 | 1 | 12,79 | 6,58 | 14 000 | 17 000 | 0,135 |
| 62205-2RS | 25 | 52 | 18 | 1 | 14,02 | 7,88 | 12 000 | 14 500 | 0,154 |
| 62206-2RS | 30 | 62 | 20 | 1 | 19,45 | 11,26 | 10 000 | 12 500 | 0,250 |
| 62207-2RS | 35 | 72 | 23 | 1,1 | 25,67 | 15,30 | 8 800 | 11 000 | 0,382 |
| 62208-2RS | 40 | 80 | 23 | 1,1 | 29,11 | 17,90 | 7 800 | 9 500 | 0,460 |
| 62209-2RS | 45 | 85 | 23 | 1,1 | 32,71 | 20,46 | 7 300 | 8 800 | 0,505 |
| 62210-2RS | 50 | 90 | 23 | 1,1 | 35,07 | 23,18 | 6 600 | 8 300 | 0,530 |
| 62301-2RS | 12 | 37 | 17 | 1 | 9,71 | 4,19 | 18 500 | 23 000 | 0,082 |
| 62302-2RS | 15 | 42 | 17 | 1 | 11,33 | 5,35 | 15 500 | 20 000 | 0,107 |
| 62303-2RS | 17 | 47 | 19 | 1 | 13,63 | 6,62 | 14 000 | 17 000 | 0,150 |
| 62304-2RS | 20 | 52 | 21 | 1,1 | 15,94 | 7,88 | 12 000 | 15 000 | 0,200 |
| 62305-2RS | 25 | 62 | 24 | 1,1 | 23,62 | 12,13 | 10 000 | 12 000 | 0,315 |
| 62306-2RS | 30 | 72 | 27 | 1,1 | 28,16 | 15,82 | 8 400 | 10 000 | 0,492 |
| 62307-2RS | 35 | 80 | 31 | 1,5 | 33,32 | 19,15 | 7 300 | 9 000 | 0,670 |
| 62308-2RS | 40 | 90 | 33 | 1,5 | 40,72 | 23,94 | 6 700 | 8 000 | 0,896 |
| 63000-2RS | 10 | 26 | 12 | 0,3 | 4,58 | 1,97 | 28 500 | 35 000 | 0,027 |
| 63001-2RS | 12 | 28 | 12 | 0,3 | 5,10 | 2,37 | 25 500 | 32 000 | 0,031 |
| 63002-2RS | 15 | 32 | 13 | 0,3 | 5,59 | 2,84 | 22 000 | 28 000 | 0,042 |
| 63003-2RS | 17 | 35 | 14 | 0,3 | 6,00 | 3,25 | 20 000 | 25 000 | 0,054 |
| 63004-2RS | 20 | 42 | 16 | 0,6 | 9,38 | 5,03 | 16 500 | 20 000 | 0,093 |
| 63005-2RS | 25 | 47 | 16 | 0,6 | 10,07 | 5,83 | 14 500 | 18 000 | 0,103 |
| 63006-2RS | 30 | 55 | 19 | 1 | 13,23 | 8,28 | 12 000 | 15 000 | 0,169 |
| 63007-2RS | 35 | 62 | 20 | 1 | 15,98 | 10,28 | 10 500 | 13 000 | 0,217 |
| 63008-2RS | 40 | 68 | 21 | 1 | 16,77 | 11,55 | 9 500 | 12 000 | 0,268 |

- 1) Options: bearings are also available with seals, shields and alternative radial internal clearance
- 2) NR versions are limited in availability.
- 3) Note: 2RS sealed versions have 40 % reduced speed capacity.

Global Manufacturing and Distribution

Our bearing and steel manufacturing is strongly backed by Timken's technology centers. Each year, we commit more than \$50 million to our global technology organization. Rigorous worldwide quality standards ensure product quality, consistent dimensional accuracy, and component interchangeability, regardless of which Timken facility produces the bearings. Continuous testing at our global network of technology facilities backs our bearing performance predictions.

Our global distribution channels ensure our products reach customers in a timely manner and enable us to respond quickly to customer demands.

Superior Performance to Meet Customer Needs

Our commitment to superior performance begins with the highest quality steel. By leveraging our extensive expertise in steel manufacturing, we ensure that every Timken bearing meets the most stringent material requirements.

While we offer more than 100 ISO part numbers we know that unique customer performance requirements are not always met by standard-size bearings.

Our engineers and other experts readily collaborate with customers to identify custom solutions that may include special materials, geometries or surface finishes. We are also committed to adding new products to satisfy our customers' demands.

Through our experience and manufacturing expertise, Timken bearings deliver maximum performance in customer applications.



For more information about
Timken ball bearings contact your
local Timken representative, or visit
www.timken.com



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Bearings • Steel •
Precision Components • Lubrication •
Seals • Remanufacture and Repair •
Industrial Services

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