

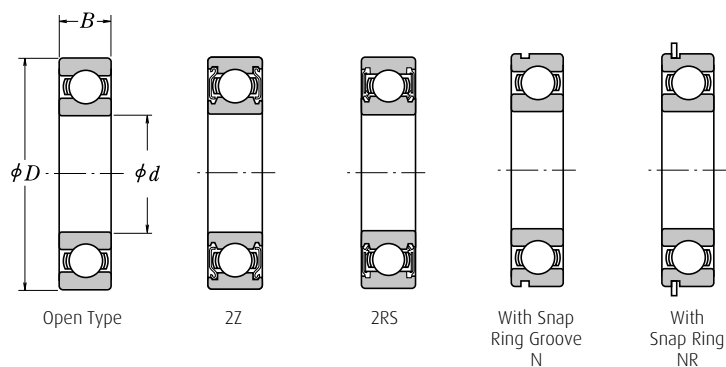
# Selection by Dimensions (Inch)

Bore Diameter  $\frac{1}{8}$  –  $\frac{5}{8}$  Inch

| Bore Diameter  | OD              | Width          | Part Number              | Type | Bearing Type                             |
|----------------|-----------------|----------------|--------------------------|------|------------------------------------------|
| $\frac{1}{8}$  | $\frac{3}{8}$   | $\frac{5}{32}$ | KLNJ $\frac{1}{8}$ Y     | B    | Single Row Radial Ball Bearings          |
|                |                 | $\frac{5}{32}$ | R2ZZ                     | B1   | Single Row Radial Ball Bearings          |
| $\frac{3}{16}$ | $\frac{1}{2}$   | 0,196          | R3A-ZZ                   | B1   | Single Row Radial Ball Bearings          |
|                | $\frac{1}{2}$   | $\frac{5}{32}$ | KLNJ $\frac{3}{16}$ Y    | B    | Single Row Radial Ball Bearings          |
|                | $\frac{1}{2}$   | $\frac{5}{32}$ | R3                       | B    | Single Row Radial Ball Bearings          |
|                | $\frac{1}{2}$   | $\frac{5}{32}$ | R3                       | B    | Single Row Radial Ball Bearings          |
|                | $\frac{1}{2}$   | $\frac{5}{32}$ | R3ZZ                     | B1   | Single Row Radial Ball Bearings          |
| $\frac{1}{4}$  | $\frac{3}{4}$   | $\frac{7}{32}$ | KLNJ $\frac{1}{4}$ Y     | B    | Single Row Radial Ball Bearings          |
|                | $\frac{3}{4}$   | $\frac{7}{32}$ | R4ATNH                   | B    | Single Row Radial Ball Bearings          |
|                | $\frac{3}{4}$   | $\frac{7}{32}$ | KLNJ $\frac{1}{4}$ -2RSY | B2   | Single Row Radial Ball Bearings          |
|                | $\frac{3}{4}$   | $\frac{7}{32}$ | KLNJ $\frac{1}{4}$ -ZZY  | B1   | Single Row Radial Ball Bearings          |
|                | $\frac{3}{4}$   | $\frac{7}{32}$ | R4A-ZZ                   | B1   | Single Row Radial Ball Bearings          |
|                | $\frac{5}{8}$   | 0,196          | R4-2RS                   | B2   | Single Row Radial Ball Bearings          |
|                | $\frac{5}{8}$   | 0,196          | R4-ZZ                    | B1   | Single Row Radial Ball Bearings          |
|                | $\frac{5}{8}$   | 0,196          | R4TNH                    | B    | Single Row Radial Ball Bearings          |
| $\frac{3}{8}$  | $\frac{7}{8}$   | $\frac{7}{32}$ | KLNJ $\frac{3}{8}$ Y     | B    | Single Row Radial Ball Bearings          |
|                | $\frac{7}{8}$   | $\frac{7}{32}$ | R6                       | B    | Single Row Radial Ball Bearings          |
|                | $\frac{7}{8}$   | $\frac{7}{32}$ | KLNJ $\frac{3}{8}$ -2RSY | B2   | Single Row Radial Ball Bearings          |
|                | $\frac{7}{8}$   | $\frac{7}{32}$ | KLNJ $\frac{3}{8}$ -ZZY  | B1   | Single Row Radial Ball Bearings          |
|                | $\frac{7}{8}$   | $\frac{7}{32}$ | R6VV                     | B6   | Single Row Radial Ball Bearings          |
|                | $\frac{7}{8}$   | $\frac{7}{32}$ | R6Z                      | B1   | Single Row Radial Ball Bearings          |
|                | $\frac{7}{8}$   | $\frac{7}{32}$ | R6ZZ                     | B1   | Single Row Radial Ball Bearings          |
| $\frac{1}{2}$  | $1\frac{1}{8}$  | $\frac{1}{4}$  | KLNJ $\frac{1}{2}$ Y     | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{1}{4}$  | R8                       | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{5}{16}$ | KLNJ $\frac{1}{2}$ -2RSY | B2   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{5}{16}$ | KLNJ $\frac{1}{2}$ -ZZY  | B1   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{5}{16}$ | R8DD                     | B2   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{5}{16}$ | R8ZZ                     | B1   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | LJ $\frac{1}{2}$ -2RSY   | B2   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | LJ $\frac{1}{2}$ -ZZY    | B1   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | LJ $\frac{1}{2}$ Y       | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | LJT $\frac{1}{2}$ M      | D    | Single Row Angular Contact Ball Bearings |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | LRJ $\frac{1}{2}$ M      | H    | Cylindrical Roller Bearings              |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | LRJA $\frac{1}{2}$ M     | H4   | Cylindrical Roller Bearings              |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | RLS4                     | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{3}{8}$  | RLS4ZZ                   | B1   | Single Row Radial Ball Bearings          |
| $\frac{5}{8}$  | $1\frac{1}{8}$  | $\frac{5}{8}$  | MJ $\frac{1}{2}$ J       | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{5}{8}$  | MJ $\frac{5}{8}$ -2RSJ   | B2   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{5}{8}$  | MJ $\frac{5}{8}$ -ZZJ    | B1   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{5}{8}$  | MJ $\frac{5}{8}$ J       | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{5}{8}$  | MJT $\frac{5}{8}$ M      | D    | Single Row Angular Contact Ball Bearings |
|                | $1\frac{1}{16}$ | $\frac{5}{8}$  | NMJ $\frac{5}{8}$ M      | G    | Double Row Self Aligning Ball Bearings   |
|                | $1\frac{1}{16}$ | $\frac{5}{8}$  | RMS5                     | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{7}{32}$ | KLNJ $\frac{5}{8}$ -2RSY | B2   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{7}{32}$ | KLNJ $\frac{5}{8}$ -ZZY  | B1   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{7}{32}$ | R10DDU                   | B2   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{7}{32}$ | R10ZZ                    | B1   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{7}{32}$ | KLNJ $\frac{5}{8}$ Y     | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{8}$  | $\frac{7}{32}$ | R10                      | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | LJ $\frac{5}{8}$ -2RSJ   | B2   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | LJ $\frac{5}{8}$ -ZZJ    | B1   | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | LJ $\frac{5}{8}$ J       | B    | Single Row Radial Ball Bearings          |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | LJT $\frac{5}{8}$ M      | D    | Single Row Angular Contact Ball Bearings |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | LLRJ $\frac{5}{8}$ J     | H2   | Cylindrical Roller Bearings              |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | LRJ $\frac{5}{8}$ J      | H    | Cylindrical Roller Bearings              |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | LRJA $\frac{5}{8}$ J     | H4   | Cylindrical Roller Bearings              |
|                | $1\frac{1}{16}$ | $\frac{7}{16}$ | RLS5                     | B    | Single Row Radial Ball Bearings          |

# Single Row Deep Groove Ball Bearings (Inch)

Bore Diameter  $\frac{1}{8}$  –  $1\frac{1}{4}$  Inch



| Boundary Dimensions (Inch) |                 |                 | Basic Bearing (N)   | Variants |     |    |      |   |    | Basic Load Ratings |                 | Limiting Speeds (min <sup>-1</sup> ) |        |               | Mass (kg) |
|----------------------------|-----------------|-----------------|---------------------|----------|-----|----|------|---|----|--------------------|-----------------|--------------------------------------|--------|---------------|-----------|
| d                          | D               | B               |                     | Z        | -2Z | RS | -2RS | N | NR | C <sub>r</sub>     | C <sub>0r</sub> | Open Grease<br>Z ZZ                  | RS 2RS | Open Oil<br>Z | approx    |
| $\frac{1}{8}$              | $\frac{3}{8}$   | $\frac{5}{32}$  | KLNJ $\frac{1}{8}$  |          |     |    |      |   |    | 665                | 230             | 40 000                               |        | 48 000        | 0,0013    |
| $\frac{3}{16}$             | $\frac{1}{2}$   | $\frac{5}{32}$  | KLNJ $\frac{3}{16}$ |          |     |    |      |   |    | 1 350              | 490             | 38 000                               |        | 45 000        | 0,0026    |
| $\frac{1}{4}$              | $\frac{3}{4}$   | $\frac{7}{32}$  | KLNJ $\frac{1}{4}$  |          |     |    |      |   |    | 2 530              | 1 030           | 32 000                               |        | 38 000        | 0,008     |
|                            | $\frac{3}{4}$   | $\frac{5}{32}$  | KLNJ $\frac{1}{4}$  |          |     |    |      |   |    | 2 530              | 1 030           | 32 000                               | 22 000 |               | 0,009     |
| $\frac{3}{8}$              | $\frac{7}{8}$   | $\frac{7}{32}$  | KLNJ $\frac{3}{8}$  |          |     |    |      |   |    | 3 460              | 1 410           | 29 000                               |        | 36 000        | 0,011     |
|                            | $\frac{7}{8}$   | $\frac{5}{32}$  | KLNJ $\frac{3}{8}$  |          |     |    |      |   |    | 3 460              | 1 410           | 29 000                               | 20 000 |               | 0,012     |
|                            | $1\frac{1}{2}$  | $\frac{5}{16}$  | MJ $\frac{3}{8}$    |          |     |    |      |   |    | 10 100             | 4 200           | 20 000                               |        | 27 000        | 0,074     |
| $\frac{1}{2}$              | $1\frac{1}{8}$  | $\frac{1}{4}$   | KLNJ $\frac{1}{2}$  |          |     |    |      |   |    | 4 180              | 2 010           | 26 000                               |        | 32 000        | 0,019     |
|                            | $1\frac{1}{8}$  | $\frac{5}{16}$  | KLNJ $\frac{1}{2}$  |          |     |    |      |   |    | 4 180              | 2 010           | 26 000                               | 17 000 |               | 0,023     |
|                            | $1\frac{1}{4}$  | $\frac{3}{8}$   | LJ $\frac{1}{2}$    |          |     |    |      |   |    | 6 950              | 3 220           | 21 000                               | 14 700 | 28 500        | 0,037     |
|                            | $1\frac{3}{8}$  | $\frac{5}{8}$   | MJ $\frac{1}{2}$    |          |     |    |      |   |    | 12 100             | 5 100           | 18 500                               | 12 900 | 25 000        | 0,096     |
| $\frac{5}{8}$              | $1\frac{3}{8}$  | $\frac{9}{32}$  | KLNJ $\frac{5}{8}$  |          |     |    |      |   |    | 5 800              | 3 370           | 22 000                               |        | 28 000        | 0,033     |
|                            | $1\frac{3}{8}$  | $\frac{11}{32}$ | KLNJ $\frac{5}{8}$  |          |     |    |      |   |    | 5 800              | 3 370           | 22 000                               | 13 000 |               | 0,04      |
|                            | $1\frac{1}{2}$  | $\frac{7}{16}$  | LJ $\frac{5}{8}$    |          |     |    |      |   |    | 10 900             | 5 000           | 18 000                               | 12 500 | 24 000        | 0,059     |
|                            | $1\frac{1}{2}$  | $\frac{5}{8}$   | MJ $\frac{5}{8}$    |          |     |    |      |   |    | 12 600             | 5 600           | 16 500                               | 11 500 | 22 000        | 0,117     |
| $\frac{3}{4}$              | $1\frac{1}{8}$  | $\frac{5}{16}$  | KLNJ $\frac{3}{4}$  |          |     |    |      |   |    | 8 200              | 4 400           | 17 000                               |        | 22 500        | 0,048     |
|                            | $1\frac{1}{8}$  | $\frac{7}{16}$  | KLNJ $\frac{3}{4}$  |          |     |    |      |   |    | 8 200              | 4 400           | 17 000                               |        | 22 500        | 0,066     |
|                            | $1\frac{1}{4}$  | $\frac{9}{16}$  | LJ $\frac{3}{4}$    |          |     |    |      |   |    | 14 200             | 6 700           | 15 500                               | 10 800 | 21 000        | 0,109     |
|                            | 2               | $\frac{11}{16}$ | MJ $\frac{3}{4}$    |          |     |    |      |   |    | 16 500             | 7 850           | 14 700                               | 10 300 | 20 000        | 0,156     |
| $\frac{7}{8}$              | $1\frac{1}{8}$  | $\frac{3}{8}$   | KLNJ $\frac{7}{8}$  |          |     |    |      |   |    | 12 000             | 6 400           | 14 800                               |        | 20 000        | 0,078     |
|                            | $1\frac{1}{8}$  | $\frac{1}{2}$   | KLNJ $\frac{7}{8}$  |          |     |    |      |   |    | 12 000             | 6 400           | 14 800                               | 10 200 |               | 0,102     |
|                            | 2               | $\frac{9}{16}$  | LJ $\frac{7}{8}$    |          |     |    |      |   |    | 14 400             | 7 000           | 14 300                               | 10 000 | 19 500        | 0,116     |
|                            | $2\frac{1}{4}$  | $\frac{11}{16}$ | MJ $\frac{7}{8}$    |          |     |    |      |   |    | 19 200             | 9 400           | 13 300                               | 9 300  | 18 000        | 0,197     |
| 1                          | 2               | $\frac{3}{8}$   | KLNJ1               |          |     |    |      |   |    | 11 800             | 7 200           | 13 600                               |        | 18 500        | 0,085     |
|                            | 2               | $\frac{1}{2}$   | KLNJ1               |          |     |    |      |   |    | 11 800             | 7 200           | 13 600                               | 9 500  | 18 500        | 0,112     |
|                            | $2\frac{1}{4}$  | $\frac{5}{8}$   | LJ1                 |          |     |    |      |   |    | 18 600             | 9 700           | 12 700                               | 8 900  | 17 000        | 0,169     |
|                            | $2\frac{1}{2}$  | $\frac{3}{4}$   | MJ1                 |          |     |    |      |   |    | 22 100             | 11 000          | 12 200                               | 8 500  | 16 500        | 0,262     |
| $1\frac{1}{8}$             | $2\frac{1}{8}$  | $\frac{3}{8}$   | KLNJ $1\frac{1}{8}$ |          |     |    |      |   |    | 11 700             | 7 300           | 13 000                               |        | 17 500        | 0,088     |
|                            | $2\frac{1}{2}$  | $\frac{5}{8}$   | LJ $1\frac{1}{8}$   |          |     |    |      |   |    | 20 200             | 11 300          | 11 700                               | 8 200  | 15 500        | 0,219     |
|                            | $2\frac{9}{16}$ | $\frac{11}{16}$ | MJ $1\frac{1}{8}$   |          |     |    |      |   |    | 30 800             | 16 600          | 10 800                               | 7 500  | 14 500        | 0,347     |
| $1\frac{1}{4}$             | $2\frac{1}{4}$  | $\frac{3}{8}$   | KLNJ $1\frac{1}{4}$ |          |     |    |      |   |    | 12 800             | 8 700           | 11 900                               |        | 16 000        | 0,096     |
|                            | $2\frac{1}{4}$  | $\frac{1}{2}$   | KLNJ $1\frac{1}{4}$ |          |     |    |      |   |    | 12 800             | 8 700           | 11 900                               |        |               | 0,128     |
|                            | $2\frac{3}{4}$  | $\frac{11}{16}$ | LJ $1\frac{1}{4}$   |          |     |    |      |   |    | 27 700             | 15 000          | 10 600                               | 7 400  | 14 400        | 0,276     |
|                            | $3\frac{1}{8}$  | $\frac{7}{8}$   | MJ $1\frac{1}{4}$   |          |     |    |      |   |    | 37 700             | 19 600          | 9 800                                | 6 800  | 13 200        | 0,476     |