

# Townsend Bearings



## Radial Ball Bearings

(an extract from our main Bearing Catalogue)

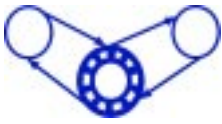


**Townsend  
Bearings**



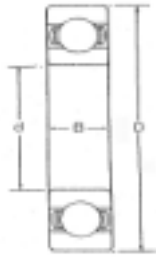
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# Townsend Bearings

Single Row Radial  
Ball Bearings (METRIC)  
Shaft Dia. 10 - 30mm

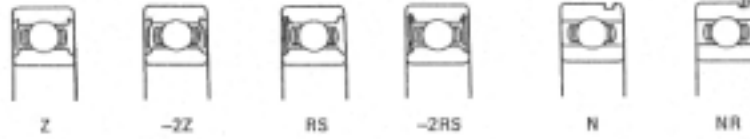
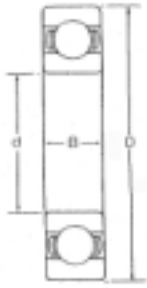


| Primary Dimensions |           |    | Basic bearing | Variants |     |    |      |   | Basic Load ratings |                           | Limiting speeds           |        |                | mass<br>kg |         |
|--------------------|-----------|----|---------------|----------|-----|----|------|---|--------------------|---------------------------|---------------------------|--------|----------------|------------|---------|
| d                  | D<br>mm   | B  |               | Z        | -2Z | RS | -2RS | N | NR                 | dynamic<br>C <sub>1</sub> | static<br>C <sub>0r</sub> | grease | oil<br>rev/min |            | RS/-2RS |
| <b>10</b>          | 19        | 5  | 61800         | *        |     | *  |      |   |                    | 1,380                     | 590                       | 38,000 |                | 22,000     | 0,0055  |
|                    | 22        | 6  | 61900         | *        |     | *  |      |   |                    | 2,080                     | 850                       | 36,000 |                | 20,000     | 0,010   |
|                    | 26        | 8  | 6000          | *        | *   | *  | *    |   |                    | 4,750                     | 1,950                     | 25,500 | 34,500         | 18,000     | 0,020   |
|                    | 30        | 9  | 6200          | *        | *   | *  | *    | * | *                  | 6,200                     | 2,650                     | 23,500 | 32,000         | 16,500     | 0,031   |
|                    | 35        | 11 | 6300          | *        | *   | *  | *    |   |                    | 8,400                     | 3,760                     | 21,500 | 29,000         | 15,000     | 0,053   |
| <b>12</b>          | 21        | 5  | 61801         | *        |     | *  |      |   |                    | 1,430                     | 670                       | 36,000 |                | 20,000     | 0,0063  |
|                    | 24        | 6  | 61901         | *        |     | *  |      |   |                    | 2,250                     | 980                       | 32,000 |                | 19,000     | 0,011   |
|                    | 28        | 8  | 6001          | *        | *   | *  | *    |   |                    | 5,300                     | 2,230                     | 23,500 | 32,000         | 16,500     | 0,023   |
|                    | 32        | 10 | 6201          | *        | *   | *  | *    | * | *                  | 750                       | 340                       | 22,000 | 29,500         | 15,500     | 0,034   |
|                    | 32        | 10 | M 201         | *        | *   | *  | *    | * | *                  | 8,550                     | 3,960                     | 10,900 | 22,000         |            | 0,042   |
|                    | 37        | 12 | 6301          | *        | *   | *  | *    | * | *                  | 10,100                    | 4,640                     | 20,000 | 27,000         | 14,000     | 0,061   |
| <b>15</b>          | 24        | 5  | 61802         | *        |     | *  |      |   |                    | 1,560                     | 800                       | 30,000 |                | 17,000     | 0,0074  |
|                    | 28        | 7  | 61902         | *        |     | *  |      |   |                    | 4,360                     | 2,240                     | 28,000 |                | 28,000     | 0,016   |
|                    | 32        | 9  | 6002          | *        | *   | *  | *    | * | *                  | 5,800                     | 2,510                     | 21,000 | 28,000         | 14,600     | 0,030   |
|                    | 35        | 11 | 6202          | *        | *   | *  | *    | * | *                  | 850                       | 3,530                     | 19,500 | 26,500         | 13,800     | 0,043   |
|                    | 35        | 11 | M 202         | *        | *   | *  | *    | * | *                  | 9,550                     | 4,450                     | 9,800  | 19,500         |            | 0,054   |
|                    | 42        | 13 | 6302          | *        | *   | *  | *    | * | *                  | 12,300                    | 5,600                     | 17,500 | 24,000         | 12,400     | 0,081   |
|                    | 42        | 13 | M302          | *        | *   | *  | *    | * | *                  | 13,600                    | 6,500                     | 8,800  | 17,500         |            | 0,099   |
| <b>17</b>          | 26        | 5  | 61803         | *        |     | *  |      |   |                    | 1,680                     | 930                       | 28,000 |                | 28,000     | 0,0082  |
|                    | 30        | 7  | 61903         | *        |     | *  |      |   |                    | 4,620                     | 2,550                     | 26,000 |                | 26,000     | 0,018   |
|                    | 35        | 10 | 6003          | *        | *   | *  | *    | * | *                  | 750                       | 330                       | 19,000 | 26,000         | 13,500     | 0,038   |
|                    | 40        | 12 | 6203          | *        | *   | *  | *    | * | *                  | 9,950                     | 4,470                     | 18,000 | 24,000         | 12,500     | 0,062   |
|                    | 40        | 12 | M 203         | *        | *   | *  | *    | * | *                  | 11,800                    | 5,650                     | 8,900  | 18,000         |            | 0,077   |
|                    | 47        | 14 | 6303          | *        | *   | *  | *    | * | *                  | 14,500                    | 6,700                     | 16,000 | 21,500         | 11,200     | 0,109   |
|                    | 47        | 14 | M303          | *        | *   | *  | *    | * | *                  | 17,600                    | 8,900                     | 8,000  | 16,000         |            | 0,131   |
|                    | 62        | 17 | 6403          | *        | *   | *  | *    | * | *                  | 22,100                    | 10,600                    | 12,200 | 16,500         |            | 0,255   |
| <b>20</b>          | 32        | 7  | 61804         | *        |     | *  |      |   |                    | 4,030                     | 2,320                     | 22,000 |                | 13,000     | 0,018   |
|                    | 37        | 9  | 61904         | *        |     | *  |      |   |                    | 6,370                     | 3,650                     | 20,000 |                | 12,000     | 0,038   |
|                    | 42        | 8  | 16004         | *        |     | *  |      |   |                    | 7,200                     | 3,370                     | 18,000 | 22,000         |            | 0,050   |
|                    | 42        | 12 | 6004          | *        | *   | *  | *    | * | *                  | 9,750                     | 4,450                     | 16,500 | 22,500         | 11,600     | 0,069   |
|                    | 47        | 14 | 6204          | *        | *   | *  | *    | * | *                  | 13,300                    | 6,200                     | 15,500 | 21,000         | 10,800     | 0,099   |
|                    | 47        | 14 | M 204         | *        | *   | *  | *    | * | *                  | 18,000                    | 9,350                     | 15,000 | 18,000         |            | 0,116   |
|                    | 52        | 15 | 6304          | *        | *   | *  | *    | * | *                  | 16,500                    | 7,800                     | 14,700 | 20,000         | 10,300     | 0,144   |
|                    | 52        | 15 | M304          | *        | *   | *  | *    | * | *                  | 19,600                    | 10,000                    | 7,400  | 14,000         |            | 0,174   |
|                    | 72        | 19 | 6404          | *        | *   | *  | *    | * | *                  | 30,700                    | 15,600                    | 10,600 | 14,000         |            | 0,390   |
| <b>25</b>          | 37        | 7  | 61805         | *        |     | *  |      |   |                    | 4,360                     | 2,600                     | 19,000 |                | 11,000     | 0,022   |
|                    | 42        | 9  | 61905         | *        |     | *  |      |   |                    | 7,020                     | 4,300                     | 18,000 |                | 10,000     | 0,045   |
|                    | 47        | 8  | 16005         | *        |     | *  |      |   |                    | 7,500                     | 3,690                     | 14,000 | 18,000         |            | 0,060   |
|                    | 47        | 12 | 6005          | *        | *   | *  | *    | * | *                  | 10,500                    | 4,950                     | 14,600 | 19,500         | 10,200     | 0,080   |
|                    | 52        | 15 | 6205          | *        | *   | *  | *    | * | *                  | 14,500                    | 6,950                     | 14,000 | 19,000         | 9,800      | 0,123   |
|                    | 52        | 15 | M 205         | *        | *   | *  | *    | * | *                  | 20,800                    | 11,200                    | 13,000 | 16,000         |            | 0,141   |
|                    | 62        | 17 | 6305          | *        | *   | *  | *    | * | *                  | 22,100                    | 10,600                    | 12,200 | 16,500         | 8,500      | 0,220   |
|                    | 62        | 17 | M 305         | *        | *   | *  | *    | * | *                  | 31,200                    | 17,400                    | 11,000 | 14,000         |            | 0,257   |
|                    | 80        | 21 | 6405          | *        | *   | *  | *    | * | *                  | 34,700                    | 17,900                    | 9,400  | 12,700         |            | 0,526   |
|                    | <b>30</b> | 42 | 7             | 61806    | *   |    | *    |   |                    |                           | 4,490                     | 2,900  | 16,000         |            | 9,500   |
| 47                 |           | 9  | 61906         | *        |     | *  |      |   |                    | 7,280                     | 4,550                     | 15,000 |                | 8,500      | 0,051   |
| 55                 |           | 9  | 16006         | *        |     | *  |      |   |                    | 11,700                    | 5,950                     | 12,000 | 15,000         |            | 0,085   |
| 55                 |           | 13 | 6006          | *        | *   | *  | *    | * | *                  | 15,700                    | 7,750                     | 12,600 | 17,000         | 8,800      | 0,116   |
| 62                 |           | 16 | 6306          | *        | *   | *  | *    | * | *                  | 20,200                    | 10,000                    | 11,700 | 15,500         | 8,200      | 0,198   |
| 62                 |           | 16 | M 306         | *        | *   | *  | *    | * | *                  | 28,200                    | 15,700                    | 11,000 | 14,000         |            | 0,218   |
| 72                 |           | 19 | 6306          | *        | *   | *  | *    | * | *                  | 30,800                    | 15,800                    | 10,600 | 14,000         | 7,400      | 0,331   |
| 72                 |           | 19 | M366          | *        | *   | *  | *    | * | *                  | 35,700                    | 22,400                    | 9,500  | 12,000         |            | 0,378   |
| 90                 |           | 23 | 6406          | *        | *   | *  | *    | * | *                  | 42,200                    | 21,700                    | 8,400  | 11,300         |            | 0,689   |

Single Row Radial  
Ball Bearings (METRIC)  
Shaft Dia. 35 - 60mm



**Townsend  
Bearings**

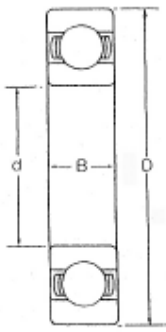


| Primary Dimensions |         |    | Basic bearing | Variants |     |    | Basic Load ratings |   | Limiting speeds |                           |                           | mass<br>kg |        |                |         |
|--------------------|---------|----|---------------|----------|-----|----|--------------------|---|-----------------|---------------------------|---------------------------|------------|--------|----------------|---------|
| d                  | D<br>mm | B  |               | Z        | -2Z | RS | -2RS               | N | NR              | dynamic<br>C <sub>1</sub> | static<br>C <sub>0r</sub> |            | grease | oil<br>rev/min | RS/-2RS |
| <b>35</b>          | 47      | 7  | 61807         | *        |     | *  |                    |   |                 | 4,750                     | 3,200                     | 14,000     |        | 8,000          | 0,03    |
|                    | 55      | 10 | 61907         | *        |     | *  |                    |   |                 | 9,560                     | 6,800                     | 13,000     |        | 7,500          | 0,08    |
|                    | 62      | 9  | 16007         |          |     |    |                    |   |                 | 12,700                    | 6,950                     | 10,500     | 13,000 |                | 0,110   |
|                    | 62      | 14 | 6007          | *        | *   | *  | *                  | * | *               | 16,600                    | 8,500                     | 11,200     | 15,000 | 7,800          | 0,156   |
|                    | 72      | 17 | 6207          | *        | *   | *  | *                  | * | *               | 26,700                    | 13,600                    | 10,100     | 13,600 | 7,100          | 0,276   |
|                    | 72      | 17 | M 207         | *        | *   | *  | *                  | * | *               | 36,400                    | 20,900                    | 7,500      | 10,100 |                | 0,304   |
|                    | 80      | 21 | 6307          | *        | *   | *  | *                  | * | *               | 34,600                    | 17,900                    | 9,400      | 12,700 | 6,600          | 0,446   |
|                    | 80      | 21 | M307          | *        | *   |    |                    |   |                 | 42,800                    | 24,600                    | 8,500      | 10,000 |                | 0,511   |
|                    | 100     | 25 | 6407          |          |     |    |                    |   | 55,000          | 29,900                    | 7,500                     | 10,200     |        | 0,916          |         |
| <b>40</b>          | 52      | 7  | 61808         | *        |     | *  |                    |   |                 | 4,940                     | 3,450                     | 13,000     |        | 7,500          | 0,034   |
|                    | 62      | 12 | 61908         | *        |     | *  |                    |   |                 | 13,800                    | 10,000                    | 12,000     |        | 6,700          | 0,12    |
|                    | 68      | 9  | 16008         |          |     |    |                    |   |                 | 13,700                    | 7,950                     | 9,500      | 12,000 |                | 0,125   |
|                    | 68      | 15 | 6008          | *        | *   | *  | *                  | * | *               | 19,700                    | 10,300                    | 10,100     | 13,600 | 7,100          | 0,191   |
|                    | 80      | 18 | 6208          | *        | *   | *  | *                  | * | *               | 34,000                    | 17,800                    | 9,000      | 12,200 | 6,300          | 0,351   |
|                    | 80      | 18 | M 208         | *        | *   |    |                    |   |                 | 38,700                    | 22,600                    | 8,500      | 10,000 |                | 0,397   |
|                    | 90      | 23 | 6308          | *        | *   | *  | *                  | * | *               | 46,200                    | 24,700                    | 8,400      | 11,300 | 5,900          | 0,590   |
|                    | 90      | 23 | M 305         | *        | *   |    |                    | * | *               | 60,500                    | 37,100                    | 7,500      | 9,000  |                | 0,796   |
|                    | 110     | 27 | 6408          |          |     |    |                    |   | 64,500          | 35,600                    | 6,800                     | 9,200      |        | 1,21           |         |
| <b>45</b>          | 58      | 7  | 61809         | *        |     | *  |                    |   |                 | 6,630                     | 6,100                     | 11,000     |        | 6,700          | 0,04    |
|                    | 68      | 12 | 61909         | *        |     | *  |                    |   |                 | 14,000                    | 10,800                    | 10,000     |        | 6,000          | 0,14    |
|                    | 75      | 10 | 16009         |          |     |    |                    |   |                 | 16,200                    | 9,400                     | 8,500      | 10,500 |                | 0,170   |
|                    | 75      | 16 | 6009          | *        | *   | *  | *                  | * | *               | 24,400                    | 13,400                    | 9,100      | 12,300 | 6,400          | 0,245   |
|                    | 85      | 19 | 6209          | *        | *   | *  | *                  | * | *               | 34,000                    | 17,800                    | 8,400      | 11,400 | 5,900          | 0,397   |
|                    | 85      | 19 | M 209         | *        | *   |    |                    | * | *               | 45,700                    | 27,700                    | 8,000      | 9,500  |                | 0,460   |
|                    | 100     | 25 | 6309          | *        | *   | *  | *                  | * | *               | 54,900                    | 29,900                    | 7,500      | 10,200 | 5,300          | 0,794   |
|                    | 100     | 25 | M 309         | *        | *   |    |                    | * | *               | 68,000                    | 41,200                    | 6,700      | 8,000  |                | 0,942   |
|                    | 120     | 29 | 6409          |          |     |    |                    |   | 74,500          | 41,800                    | 6,200                     | 8,400      |        | 1,53           |         |
| <b>50</b>          | 65      | 7  | 61810         | *        |     | *  |                    |   |                 | 6,760                     | 6,800                     | 10,000     |        | 6,000          | 0,052   |
|                    | 72      | 12 | 61910         | *        |     | *  |                    |   |                 | 14,600                    | 11,800                    | 9,500      |        | 5,600          | 0,14    |
|                    | 80      | 10 | 16010         |          |     |    |                    |   |                 | 16,700                    | 10,000                    | 8,000      | 10,000 |                | 0,180   |
|                    | 80      | 16 | 6010          | *        | *   | *  | *                  | * | *               | 22,700                    | 13,100                    | 8,300      | 11,200 | 5,800          | 0,264   |
|                    | 90      | 20 | 6210          | *        | *   | *  | *                  | * | *               | 36,500                    | 19,800                    | 7,800      | 10,600 | 5,500          | 0,446   |
|                    | 90      | 20 | M 210         | *        | *   |    |                    | * | *               | 47,800                    | 29,700                    | 7,500      | 9,000  |                | 0,511   |
|                    | 110     | 27 | 6310          | *        | *   | *  | *                  | * | *               | 64,500                    | 35,600                    | 6,800      | 9,200  | 4,800          | 1,06    |
|                    | 110     | 27 | M 310         | *        | *   |    |                    | * | *               | 84,500                    | 53,500                    | 6,000      | 7,000  |                | 1,22    |
|                    | 130     | 31 | 6410          |          |     |    |                    |   | 85,000          | 48,500                    | 5,700                     | 7,700      |        | 1,90           |         |
| <b>55</b>          | 72      | 9  | 61811         | *        |     | *  |                    |   |                 | 9,040                     | 8,800                     | 9,500      |        | 5,300          | 0,083   |
|                    | 80      | 13 | 61911         | *        |     | *  |                    |   |                 | 16,500                    | 14,000                    | 8,500      |        | 5,000          | 0,19    |
|                    | 90      | 11 | 16011         |          |     |    |                    |   |                 | 20,100                    | 12,400                    | 7,500      | 9,000  |                | 0,271   |
|                    | 90      | 18 | 6011          | *        | *   | *  | *                  | * | *               | 29,400                    | 17,000                    | 7,600      | 10,300 | 5,300          | 0,394   |
|                    | 100     | 21 | 6211          | *        | *   | *  | *                  | * | *               | 45,100                    | 25,100                    | 7,100      | 9,500  | 4,900          | 0,590   |
|                    | 100     | 21 | M211          | *        | *   |    |                    | * | *               | 59,000                    | 37,600                    | 6,700      | 8,000  |                | 0,690   |
|                    | 120     | 29 | 6311          | *        | *   | *  | *                  | * | *               | 74,000                    | 41,800                    | 6,200      | 8,400  | 4,400          | 1,35    |
|                    | 120     | 29 | M311          | *        | *   |    |                    | * | *               | 97,000                    | 62,500                    | 5,300      | 6,300  |                | 1,67    |
|                    | 140     | 33 | 4411          |          |     |    |                    |   | 96,500          | 55,500                    | 5,300                     | 7,100      |        | 2,31           |         |
| <b>60</b>          | 78      | 10 | 61812         | *        |     | *  |                    |   |                 | 11,900                    | 11,400                    | 8,500      |        | 4,800          | 0,11    |
|                    | 85      | 13 | 61912         | *        |     | *  |                    |   |                 | 16,500                    | 14,300                    | 8,000      |        | 4,500          | 0,20    |
|                    | 95      | 11 | 16012         |          |     |    |                    |   |                 | 20,700                    | 13,100                    | 7,000      | 8,500  |                | 0,288   |
|                    | 95      | 18 | 6012          | *        | *   | *  | *                  | * | *               | 33,600                    | 19,700                    | 7,100      | 9,600  | 5,000          | 0,419   |
|                    | 110     | 22 | 6212          | *        | *   | *  | *                  | * | *               | 54,500                    | 30,900                    | 6,400      | 8,700  | 4,500          | 0,771   |
|                    | 110     | 22 | M 212         | *        | *   |    |                    | * | *               | 71,500                    | 46,400                    | 6,000      | 7,000  |                | 0,886   |

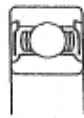


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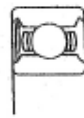
Single Row Radial  
Ball Bearings (METRIC)  
Shaft Dia. 60 - 85mm



Z



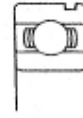
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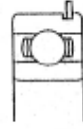
RS



-2RS



N



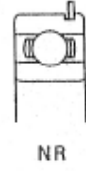
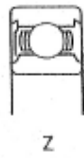
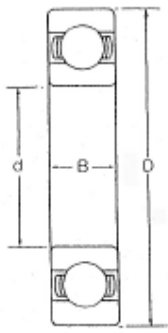
NR

| Primary Dimensions |         |      | Basic bearing | Variants |     |    |      |   |         | Basic Load ratings        |                           | Limiting speeds |                |         | mass<br>kg |
|--------------------|---------|------|---------------|----------|-----|----|------|---|---------|---------------------------|---------------------------|-----------------|----------------|---------|------------|
| d                  | D<br>mm | B    |               | Z        | -2Z | RS | -2RS | N | NR      | dynamic<br>C <sub>1</sub> | static<br>C <sub>0r</sub> | grease          | oil<br>rev/min | RS/-2RS |            |
| <b>60</b>          | 130     | 31   | 6312          | *        | *   | *  | *    | * | *       | 85,000                    | 48,500                    | 5,700           | 7,700          | 4,000   | 1,69       |
|                    | 130     | 31   | M312          | *        |     |    |      |   | *       | 112,000                   | 72,500                    | 5,000           | 6,000          |         | 2,10       |
|                    | 150     | 35   | 6412          |          |     |    |      |   |         | 108,000                   | 63,500                    | 4,900           | 6,600          |         | 2,80       |
| <b>65</b>          | 85      | 10   | 61813         |          | *   |    |      |   | *       | 12,400                    | 12,700                    | 8,000           |                | 4,500   | 0,13       |
|                    | 90      | 13   | 61913         |          | *   |    |      |   | *       | 17,400                    | 16,000                    | 7,500           |                | 4,300   | 0,22       |
|                    | 100     | 11   | 16013         |          |     |    |      |   |         | 22,000                    | 14,700                    | 6,300           | 7,500          |         | 0,30       |
|                    | 100     | 18   | 6013          | *        | *   | *  | *    | * | *       | 31,800                    | 19,600                    | 6,700           | 9,000          | 4,711   | 0,449      |
|                    | 120     | 23   | 6213          | *        | *   | *  | *    | * | *       | 59,500                    | 34,100                    | 5,900           | 7,900          | 4,100   | 0,966      |
|                    | 120     | 23   | M213          | *        |     |    |      |   | *       | 85,000                    | 56,000                    | 5,300           | 6,300          |         | 1,11       |
|                    | 140     | 33   | 6313          | *        | *   | *  | *    | * | *       | 96,500                    | 55,500                    | 4,300           | 7,100          | 3,700   | 2,07       |
|                    | 140     | 33   | M313          |          |     |    |      |   | *       | 126,000                   | 83,500                    | 4,500           | 5,300          |         | 2,37       |
| 160                | 37      | 6413 |               |          |     |    |      |   | 118,000 | 71,500                    | 4,600                     | 6,200           |                | 3,25    |            |
| <b>70</b>          | 90      | 10   | 61814         |          | *   |    | *    |   |         | 12,400                    | 13,200                    | 7,500           |                | 4,300   | 0,14       |
|                    | 100     | 16   | 61914         |          | *   |    | *    |   |         | 23,800                    | 21,200                    | 7,000           |                | 4,000   | 0,35       |
|                    | 110     | 13   | 16014         |          |     |    |      |   |         | 28,900                    | 18,900                    | 6,000           | 7,000          |         | 0,451      |
|                    | 110     | 20   | 6014          | *        | *   | *  | *    | * | *       | 42,700                    | 25,700                    | 6,100           | 8,200          | 4,300   | 0,608      |
|                    | 125     | 24   | 6214          | *        | *   | *  | *    | * | *       | 64,500                    | 37,400                    | 5,600           | 7,500          | 3,900   | 1,05       |
|                    | 125     | 24   | M214          | *        |     |    |      |   | *       | 88,500                    | 60,000                    | 5,000           | 6,000          |         | 1,22       |
|                    | 150     | 35   | 6314          | *        | *   | *  | *    | * | *       | 108,000                   | 63,500                    | 4,900           | 6,600          | 3,400   | 2,49       |
|                    | 150     | 35   | M314          |          |     |    |      |   | *       | 142,000                   | 95,000                    | 4,300           | 5,000          |         | 2,89       |
| 180                | 42      | 6414 |               |          |     |    |      |   | 138,000 | 89,500                    | 4,000                     | 5,400           |                | 5,03    |            |
| <b>75</b>          | 95      | 10   | 61815         |          | *   |    | *    |   |         | 12,700                    | 14,300                    | 7,000           |                | 4,000   | 0,15       |
|                    | 105     | 16   | 61915         |          | *   |    | *    |   |         | 24,200                    | 19,300                    | 6,300           |                | 3,600   | 0,37       |
|                    | 115     | 13   | 16015         |          |     |    |      |   |         | 29,800                    | 20,000                    | 5,600           | 6,700          |         | 0,476      |
|                    | 115     | 20   | 6015          | *        | *   | *  | *    | * | *       | 26,100                    | 5,800                     | 7,800           | 4,500          |         | 0,68       |
|                    | 130     | 25   | 6215          | *        | *   | *  | *    | * | *       | 69,000                    | 41,200                    | 5,300           | 7,100          | 3,700   | 1,13       |
|                    | 130     | 25   | M215          | *        |     |    |      |   | *       | 88,500                    | 60,000                    | 2,600           | 5,300          |         | 1,47       |
|                    | 160     | 37   | 6315          | *        | *   | *  | *    | * | *       | 118,000                   | 71,500                    | 4,600           | 6,200          | 3,200   | 2,98       |
|                    | 160     | 37   | M315          | *        |     |    |      |   | *       | 155,000                   | 107,000                   | 2,300           | 4,600          |         | 3,66       |
| 190                | 45      | 6415 |               |          |     |    |      |   | 148,000 | 99,000                    | 3,700                     | 5,000           |                | 6,74    |            |
| <b>80</b>          | 100     | 10   | 61816         |          | *   |    | *    |   |         | 13,000                    | 15,000                    | 6,300           |                | 3,600   | 0,15       |
|                    | 110     | 16   | 61916         |          | *   |    | *    |   |         | 25,100                    | 20,400                    | 6,000           |                | 3,400   | 0,40       |
|                    | 125     | 14   | 16016         |          |     |    |      |   |         | 33,400                    | 23,300                    | 5,300           | 6,300          |         | 0,634      |
|                    | 125     | 22   | 6016          |          |     | *  | *    | * | *       | 49,000                    | 31,300                    | 5,300           | 7,200          | 3,700   | 0,907      |
|                    | 140     | 26   | 6216          | *        | *   | *  | *    | * | *       | 80,500                    | 49,000                    | 4,900           | 6,600          | 3,400   | 1,37       |
|                    | 140     | 26   | M216          | *        |     |    |      |   | *       | 99,000                    | 67,000                    | 2,400           | 4,900          |         | 1,78       |
|                    | 170     | 39   | 6316          | *        | *   | *  | *    | * | *       | 128,000                   | 80,000                    | 4,200           | 5,700          | 2,900   | 3,58       |
|                    | 170     | 39   | M316          |          |     |    |      |   | *       | 158,000                   | 110,000                   | 2,100           | 4,200          |         | 4,54       |
| 200                | 48      | 6416 |               |          |     |    |      |   | 170,000 | 125,000                   | 1,900                     | 3,700           |                | 8,30    |            |
| <b>85</b>          | 110     | 13   | 61817         |          | *   |    | *    |   |         | 19,500                    | 20,800                    | 6,000           |                | 3,400   | 0,27       |
|                    | 130     | 14   | 16017         |          |     |    |      |   |         | 35,300                    | 24,800                    | 5,000           | 6,000          |         | 0,641      |
|                    | 130     | 22   | 6017          |          |     | *  | *    | * | *       | 51,500                    | 33,500                    | 5,000           | 6,800          | 3,500   | 0,907      |
|                    | 150     | 28   | 6217          | *        | *   | *  | *    | * | *       | 57,500                    | 52,500                    | 4,500           | 6,100          | 3,100   | 1,71       |
|                    | 150     | 28   | M217          | *        |     |    |      |   | *       | 115,000                   | 78,500                    | 2,300           | 4,500          |         | 2,13       |
|                    | 180     | 41   | 6317          | *        | *   |    |      |   | *       | 138,000                   | 89,500                    | 4,000           | 5,400          |         | 4,25       |
|                    | 180     | 41   | M317          |          |     |    |      |   | *       | 181,000                   | 134,000                   | 2,000           | 4,000          |         | 5,23       |
| 210                | 52      | 6417 |               |          |     |    |      |   | 159,000 | 109,000                   | 1,700                     | 3,400           |                | 9,84    |            |

Single Row Radial  
Ball Bearings (METRIC)  
Shaft Dia. 90 - 130mm



**Townsend  
Bearings**

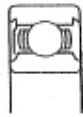
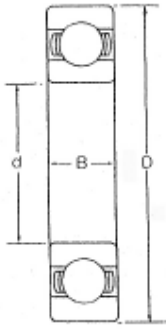


| Primary Dimensions |            |     | Basic bearing | Variants |     |    |      | Basic Load ratings |    | Limiting speeds           |                           |        | mass<br>kg |                |         |
|--------------------|------------|-----|---------------|----------|-----|----|------|--------------------|----|---------------------------|---------------------------|--------|------------|----------------|---------|
| d                  | D<br>mm    | B   |               | Z        | -2Z | RS | -2RS | N                  | NR | dynamic<br>C <sub>1</sub> | static<br>C <sub>0r</sub> | grease |            | oil<br>rev/min | RS/-2RS |
| <b>90</b>          | 115        | 13  | 61818         | *        |     |    |      |                    |    | 19,500                    | 22,000                    | 5,600  |            | 3,200          | 0,28    |
|                    | 140        | 16  | 16018         |          |     |    |      |                    |    | 43,100                    | 29,500                    | 4,500  | 5,300      |                | 0,856   |
|                    | 140        | 24  | 6018          |          |     |    |      | *                  | *  | 60,500                    | 39,100                    | 4,500  | 6,300      |                | 1,16    |
|                    | 160        | 30  | 6218          | *        | *   | *  | *    | *                  | *  | 93,000                    | 57,500                    | 4,300  | 5,800      | 3,000          | 2,57    |
|                    | 160        | 30  | M 218         | *        |     |    |      |                    |    | 119,000                   | 83,500                    | 2,100  | 4,200      |                | 2,68    |
|                    | 190        | 43  | 6318          | *        | *   |    |      | *                  | *  | 148,000                   | 99,000                    | 3,700  | 5,000      |                | 5,85    |
|                    | 190        | 43  | M 316         |          |     |    |      |                    |    | 195,000                   | 148,000                   | 1,900  | 3,700      |                | 6,23    |
|                    | 225        | 54  | 6418          |          |     |    |      |                    |    | 170,000                   | 120,000                   | 1,600  | 3,200      |                | 12,4    |
| <b>95</b>          | 120        | 13  | 61819         | *        |     |    | *    |                    |    | 19,900                    | 22,800                    | 5,300  |            | 3,000          | 0,30    |
|                    | 145        | 16  | 16019         |          |     |    |      |                    |    | 41,400                    | 30,300                    | 4,500  | 5,300      |                | 0,948   |
|                    | 145        | 24  | 6019          |          |     | *  | *    |                    |    | 63,000                    | 41,900                    | 4,400  | 6,000      | 3,100          | 1,21    |
|                    | 170        | 32  | 6219          | *        |     |    |      | *                  | *  | 106,000                   | 66,500                    | 4,000  | 5,400      |                | 2,72    |
|                    | 170        | 32  | M219          |          |     |    |      | *                  | *  | 148,000                   | 104,000                   | 2,000  | 4,000      |                | 3,31    |
|                    | 200        | 45  | 6319          |          |     |    |      |                    |    | 149,000                   | 99,000                    | 3,500  | 4,700      |                | 6,80    |
|                    | 200        | 45  | M319          |          |     |    |      |                    |    | 195,000                   | 148,000                   | 1,800  | 3,500      |                | 7,23    |
| <b>100</b>         | 125        | 13  | 61820         | *        |     |    | *    |                    |    | 19,900                    | 24,000                    | 5,300  |            | 3,000          | 0,31    |
|                    | 150        | 16  | 16020         |          |     |    |      |                    |    | 45,600                    | 33,100                    | 4,100  | 4,900      |                | 0,910   |
|                    | 150        | 24  | 6020          |          |     |    |      |                    |    | 62,500                    | 42,000                    | 4,300  | 5,890      |                | 1,42    |
|                    | 180        | 34  | 6220          |          |     |    |      | *                  | *  | 120,000                   | 74,500                    | 3,800  | 5,100      |                | 3,12    |
|                    | 180        | 34  | M 220         | *        |     |    |      |                    |    | 167,000                   | 119,000                   | 1,900  | 3,800      |                | 3,96    |
|                    | 215        | 47  | 6320          |          |     |    |      | *                  | *  | 170,000                   | 120,000                   | 3,200  | 4,400      |                | 7,03    |
|                    | 215        | 47  | M 320         |          |     |    |      |                    |    | 223,000                   | 180,000                   | 1,600  | 3,200      |                | 8,64    |
|                    | 250        | 58  | 6420          |          |     |    |      |                    |    | 214,000                   | 170,000                   | 1,400  | 2,900      |                | 16,2    |
| <b>105</b>         | 130        | 13  | 61821         | *        |     |    | *    |                    |    | 20,800                    | 19,600                    | 5,000  |            | 2,800          | 0,32    |
|                    | 160        | 26  | 6021          |          |     |    |      |                    |    | 75,500                    | 51,000                    | 2,000  | 4,000      |                | 1,62    |
|                    | 190        | 36  | 6221          |          |     |    |      |                    |    | 135,000                   | 87,000                    | 3,500  | 4,700      |                | 4,42    |
|                    | 225        | 49  | 6321          |          |     |    |      |                    |    | 191,000                   | 143,000                   | 3,100  | 4,200      |                | 9,53    |
|                    | <b>110</b> | 140 | 16            | 61822    | *   |    |      | *                  |    |                           | 28,100                    | 26,000 | 4,500      |                | 2,600   |
| 170                |            | 19  | 16022         |          |     |    |      |                    |    | 59,500                    | 42,700                    | 3,700  | 4,400      |                | 1,46    |
| 170                |            | 28  | 6022          |          |     |    |      | *                  | *  | 85,500                    | 57,500                    | 3,800  | 5,100      |                | 1,97    |
| 200                |            | 38  | 6222          | *        | *   |    |      |                    |    | 147,000                   | 98,500                    | 3,300  | 4,400      |                | 5,17    |
| 200                |            | 38  | M 222         | *        |     |    |      |                    |    | 181,000                   | 134,000                   | 1,600  | 3,300      |                | 5,43    |
| 240                |            | 50  | 6322          |          |     |    |      |                    |    | 203,000                   | 155,000                   | 2,900  | 3,900      |                | 9,70    |
| <b>120</b>         |            | 150 | 16            | 61824    | *   |    |      | *                  |    |                           | 29,100                    | 28,000 | 4,300      |                | 2,400   |
|                    | 180        | 19  | 16024         |          |     |    |      |                    |    | 53,500                    | 47,700                    | 3,400  | 4,000      |                | 1,67    |
|                    | 180        | 28  | 6024          |          |     |    |      |                    |    | 86,000                    | 60,000                    | 3,500  | 4,700      |                | 2,39    |
|                    | 215        | 40  | 6224          |          |     |    |      |                    |    | 150,000                   | 102,000                   | 3,000  | 4,100      |                | 6,02    |
|                    | 215        | 40  | M 224         |          |     |    |      |                    |    | 212,000                   | 168,000                   | 1,500  | 3,000      |                | 6,52    |
|                    | 260        | 55  | 6324          |          |     |    |      |                    |    | 226,000                   | 180,000                   | 2,600  | 3,500      |                | 15,4    |
| <b>130</b>         | 165        | 18  | 61826         | *        |     |    | *    |                    |    | 37,700                    | 43,000                    | 3,800  |            | 2,200          | 0,93    |
|                    | 200        | 33  | 6026          |          |     |    |      |                    |    | 109,000                   | 77,500                    | 3,100  | 4,200      |                | 3,63    |
|                    | 230        | 40  | 6226          |          |     |    |      |                    |    | 172,000                   | 123,000                   | 2,700  | 3,700      |                | 7,08    |
|                    | 230        | 40  | M 326         |          |     |    |      |                    |    | 220,000                   | 179,000                   | 1,400  | 2,700      |                | 7,32    |
|                    | 280        | 58  | 6326          |          |     |    |      |                    |    | 250,000                   | 208,000                   | 2,400  | 3,200      |                | 18,4    |

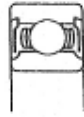


# Townsend Bearings

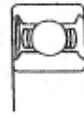
Single Row Radial  
Ball Bearings (METRIC)  
Shaft Dia. 140 - 260mm



Z



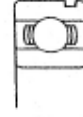
-ZZ



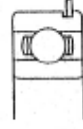
RS



-2RS



N



NR

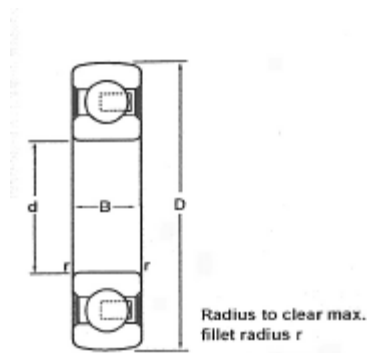
| Primary Dimensions |         |    | Basic bearing | Variants |     |    |      |   | Basic Load ratings |                           | Limiting speeds           |        |                | mass<br>kg |
|--------------------|---------|----|---------------|----------|-----|----|------|---|--------------------|---------------------------|---------------------------|--------|----------------|------------|
| d                  | D<br>mm | B  |               | Z        | -ZZ | RS | -2RS | N | NR                 | dynamic<br>C <sub>1</sub> | static<br>C <sub>0r</sub> | grease | oil<br>rev/min |            |
| <b>140</b>         | 175     | 18 | 61828         | *        | *   |    |      |   | 39,000             | 46,500                    | 3,600                     |        | 2,000          | 0,99       |
|                    | 210     | 33 | 6028          |          |     |    |      |   | 113,000            | 82,500                    | 2,900                     | 3,900  |                | 3,81       |
|                    | 250     | 42 | 6228          |          |     |    |      |   | 184,000            | 136,000                   | 2,500                     | 3,400  |                | 8,98       |
|                    | 300     | 62 | 6328          |          |     |    |      |   | 263,000            | 223,000                   | 2,200                     | 2,900  |                | 22,4       |
| <b>150</b>         | 225     | 35 | 6030          |          |     |    |      |   | 134,000            | 97,500                    | 1,300                     | 2,700  |                | 4,94       |
|                    | 270     | 45 | 6230          |          |     |    |      |   | 183,000            | 136,000                   | 2,300                     | 3,100  |                | 11,0       |
|                    | 320     | 65 | 6330          |          |     |    |      |   | 288,000            | 253,000                   | 2,000                     | 2,700  |                | 24,9       |
| <b>160</b>         | 240     | 38 | 6032          |          |     |    |      |   | 145,000            | 104,000                   | 1,200                     | 2,400  |                | 5,95       |
|                    | 290     | 48 | 6232          |          |     |    |      |   | 238,000            | 196,000                   | 2,100                     | 2,800  |                | 13,7       |
|                    | 340     | 68 | 6332          |          |     |    |      |   | 313,000            | 286,000                   | 1,900                     | 2,500  |                | 32,1       |
| <b>170</b>         | 260     | 42 | 6034          |          |     |    |      |   | 175,000            | 134,000                   | 2,200                     | 3,000  |                | 7,74       |
|                    | 310     | 52 | 6234          |          |     |    |      |   | 237,000            | 196,000                   | 1,000                     | 2,000  |                | 16,7       |
|                    | 360     | 72 | 6334          |          |     |    |      |   | 339,000            | 321,000                   | 1,700                     | 2,300  |                | 37,4       |
| <b>180</b>         | 280     | 46 | 6036          |          |     |    |      |   | 181,000            | 140,000                   | 1,000                     | 2,000  |                | 10,7       |
|                    | 320     | 52 | 6236          |          |     |    |      |   | 266,000            | 230,000                   | 1,800                     | 2,500  |                | 17,2       |
|                    | 380     | 75 | 6336          |          |     |    |      |   | 352,000            | 357,000                   | 800                       | 1,600  |                | 40,8       |
| <b>190</b>         | 340     | 55 | 6238          |          |     |    |      |   | 281,000            | 248,000                   | 1,700                     | 2,300  |                | 21,7       |
|                    | 400     | 78 | 6338          |          |     |    |      |   | 397,000            | 402,000                   | 750                       | 1,500  |                | 49,8       |
| <b>200</b>         | 360     | 58 | 6240          |          |     |    |      |   | 279,000            | 251,000                   | 1,600                     | 2,200  |                | 25,4       |
|                    | 420     | 80 | 6340          |          |     |    |      |   | 425,000            | 444,000                   | 700                       | 1,400  |                | 63,5       |
| <b>220</b>         | 400     | 65 | 6244          |          |     |    |      |   | 356,000            | 348,000                   | 1,400                     | 1,900  |                | 36,4       |
| <b>240</b>         | 440     | 72 | 6248          |          |     |    |      |   | 386,000            | 393,000                   | 1,200                     | 1,700  |                | 48,5       |
| <b>260</b>         | 480     | 80 | 6252          |          |     |    |      |   | 405,000            | 490,000                   | 1,100                     | 1,500  |                | 70,3       |



Single Row Radial Ball Bearings  
with Spherical Outside Diameter (METRIC)  
Shaft Dia. 17 - 50mm



**Townsend  
Bearings**



| Primary dimensions |     |    | Basic bearing | Basic Load ratings        |                          | Limiting speeds | mass   |      |
|--------------------|-----|----|---------------|---------------------------|--------------------------|-----------------|--------|------|
| d                  | D   | B  |               | dynamic<br>C <sub>1</sub> | static<br>C <sub>0</sub> |                 |        |      |
| mm                 |     |    | r             | N                         |                          | rev/min         | kg     |      |
| <b>17</b>          | 40  | 12 | 0.6           | 1726203-2RS               | 7 300                    | 4 760           | 12 500 | 0,06 |
| <b>20</b>          | 47  | 14 | 1.0           | 1726204-2RS               | 9 850                    | 6 580           | 10 800 | 0,10 |
| <b>25</b>          | 52  | 15 | 1,0           | 1726205-2RS               | 10 800                   | 7 880           | 9 800  | 0,12 |
| <b>30</b>          | 62  | 16 | 1,0           | 1726206-2RS               | 15 000                   | 11 300          | 8 200  | 0,20 |
| <b>35</b>          | 72  | 17 | 1,0           | 1726207-2RS               | 19 700                   | 15 300          | 7 100  | 0,28 |
| <b>40</b>          | 80  | 18 | 1,0           | 1726208-2RS               | 22 400                   | 17 400          | 6 300  | 0,35 |
|                    | 90  | 23 | 1,5           | 1726208-2RS               | 31 400                   | 23 900          | 5 900  | 0,60 |
| <b>45</b>          | 85  | 19 | 1,0           | 1726209-2RS               | 25 100                   | 20 500          | 5 900  | 0,40 |
|                    | 100 | 25 | 1,5           | 1726209-2RS               | 40 600                   | 31 700          | 5 300  | 0,80 |
| <b>50</b>          | 90  | 20 | 1,0           | 1726210-2RS               | 27 000                   | 23 200          | 5 500  | 0,50 |
|                    | 100 | 27 | 2,0           | 1726210-2RS               | 47 600                   | 37 900          | 4 800  | 1,10 |

These bearings can be supplied fitted into standard Self-Lube housings. The complete unit reference is obtained by adding the bearing bore size and "-2RS" to the basic housing series reference: e.g. NP25-2RS



# Townsend Bearings

Single Row Separable  
Ball Bearings - Magneto Type (METRIC)  
Shaft Dia. 3 - 20mm

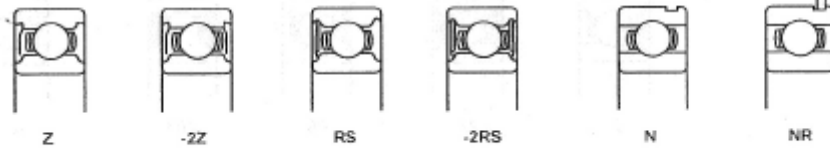
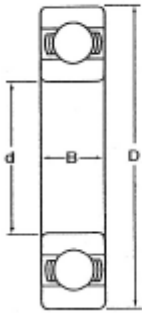


| Primary dimensions |    |    | Basic bearing | Basic Load ratings             |                           | Limiting speeds   |        | mass<br>kg |
|--------------------|----|----|---------------|--------------------------------|---------------------------|-------------------|--------|------------|
| d<br>mm            | D  | B  |               | dynamic<br>C <sub>1</sub><br>N | static<br>C <sub>0r</sub> | grease<br>rev/min | oil    |            |
| <b>3</b>           | 16 | 5  | E3            | 1 620                          | 260                       | 33 000            | 41 200 | 0,005      |
| <b>4</b>           | 16 | 5  | E4            | 1 620                          | 260                       | 33 000            | 41 200 | 0,005      |
| <b>5</b>           | 16 | 5  | E5            | 1 620                          | 260                       | 33 000            | 41 200 | 0,005      |
| <b>6</b>           | 21 | 7  | E6            | 2 960                          | 410                       | 30 000            | 37 500 | 0,011      |
| <b>7</b>           | 22 | 7  | E7            | 3 180                          | 480                       | 29 000            | 36 200 | 0,013      |
| <b>8</b>           | 24 | 7  | E8            | 3 370                          | 540                       | 28 000            | 35 000 | 0,016      |
| <b>9</b>           | 28 | 8  | E9            | 4 430                          | 740                       | 26 000            | 32 500 | 0,023      |
| <b>10</b>          | 28 | 8  | E10           | 4 430                          | 740                       | 26 000            | 32 500 | 0,022      |
| <b>12</b>          | 32 | 7  | E12           | 3 570                          | 750                       | 23 000            | 28 700 | 0,028      |
| <b>13</b>          | 30 | 7  | E13           | 3 570                          | 750                       | 25 000            | 31 200 | 0,022      |
| <b>15</b>          | 35 | 8  | E15           | 4 700                          | 1 020                     | 20 000            | 25 000 | 0,034      |
| <b>17</b>          | 40 | 10 | E17           | 5 300                          | 1 350                     | 17 000            | 21 200 | 0,055      |
| <b>20</b>          | 47 | 12 | E20           | 9 200                          | 2 080                     | 14 000            | 17 500 | 0,089      |

Single Row Radial  
Ball Bearings (IMPERIAL)  
Shaft Dia. 1/8 - 1 1/4 inch



**Townsend  
Bearings**



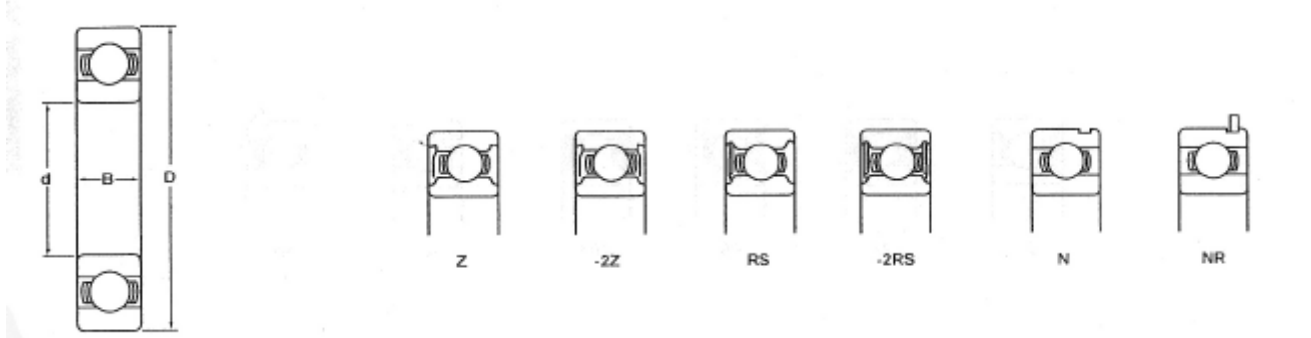
| Primary dimensions |         |        | Basic bearing | Variants |     |    |      |   |        | Basic Load ratings             |                           | Limiting speeds   |        |         | mass<br>kg |
|--------------------|---------|--------|---------------|----------|-----|----|------|---|--------|--------------------------------|---------------------------|-------------------|--------|---------|------------|
| d<br>mm            | D       | B      |               | Z        | -2Z | RS | -2RS | N | NR     | dynamic<br>C <sub>r</sub><br>N | static<br>C <sub>0r</sub> | grease<br>rev/min | oil    | RS/-2RS |            |
| 1/8                | 3/8     | 5/32   | KLNJ1/8       |          |     |    |      |   |        | 670                            | 215                       | 38 000            | 45 000 |         | 0,0013     |
| 3/16               | 1/2     | 5/32   | KLNJ3/16      |          |     |    |      |   |        | 1 350                          | 490                       | 35 000            | 43 000 |         | 0,0026     |
| 1/4                | 3/4     | 7/32   | KLNJ1/4       |          |     |    |      |   |        | 2 550                          | 990                       | 33 000            | 41 000 |         | 0,008      |
|                    | 3/4     | 9/32   | (KLNJ1/4)     | *        |     |    | *    |   |        | 2 550                          | 990                       | 33 000            | 22 000 |         | 0,009      |
| 3/8                | 7/8     | 7/32   | KLNJ3/8       |          |     |    |      |   |        | 3 460                          | 1 360                     | 29 000            | 36 000 |         | 0,011      |
|                    | 7/8     | 9/32   | (KLNJ3/8)     | *        | *   | *  | *    |   |        | 3 460                          | 1 360                     | 29 000            | 36 000 | 20 000  | 0,012      |
|                    | 1 1/2   | 9/16   | MJ3/8         |          |     |    |      |   |        | 10 100                         | 4 640                     | 20 000            | 27 000 |         | 0,074      |
| 1/2                | 1 1/8   | 1/4    | KLNJ1/2       |          |     |    |      |   |        | 4 180                          | 1 740                     | 23 000            | 31 000 |         | 0,019      |
|                    | 1 1/8   | 5/16   | (KLNJ1/2)     | *        | *   | *  | *    |   |        | 4 180                          | 1 740                     | 23 000            | 31 000 | 16 000  | 0,023      |
|                    | 1 5/16  | 3/8    | LJ1/2         | *        | *   | *  | *    |   |        | 6 950                          | 3 030                     | 21 000            | 28 500 | 14 700  | 0,037      |
|                    | 1 5/8   | 5/8    | MJ1/2         | *        | *   | *  | *    |   |        | 12 100                         | 5 600                     | 18 500            | 25 000 | 12 900  | 0,096      |
| 5/8                | 1 3/8   | 9/32   | KLNJ5/8       |          |     |    |      |   |        | 5 800                          | 2 510                     | 20 000            | 27 000 |         | 0,033      |
|                    | 1 3/8   | 11/32  | (KLNJ5/8)     |          | *   |    | *    |   |        | 5 800                          | 2 510                     | 20 000            |        |         | 0,040      |
|                    | 1 13/16 | 7/16   | LJ5/8         | *        | *   | *  | *    |   |        | 10 900                         | 5 000                     | 18 000            | 24 000 | 12 500  | 0,059      |
|                    | 1 13/16 | 5/8    | MJ5/8         | *        | *   | *  | *    |   |        | 12 600                         | 5 600                     | 16 500            | 22 000 | 11 500  | 0,117      |
| 3/4                | 1 5/8   | 5/16   | KLNJ3/4       |          |     |    |      |   |        | 8 200                          | 3 800                     | 17 000            | 22 500 |         | 0,048      |
|                    | 1 5/8   | 7/16   | (KLNJ3/4)     | *        | *   |    |      |   |        | 8 200                          | 3 800                     | 17 000            | 22 500 |         | 0,066      |
|                    | 1 7/8   | 9/16   | LJ3/4         | *        | *   | *  | *    |   |        | 14 200                         | 6 550                     | 15 500            | 21 000 | 10 800  | 0, 109     |
|                    | 2       | 1 1/16 | MJ3/4         | *        | *   | *  | *    |   |        | 500                            | 7 800                     | 14 700            | 20 000 | 10 300  | 0, 156     |
| 7/8                | 1 7/8   | 3/8    | KLNJ7/8       |          |     |    |      |   |        | 12 000                         | 5 650                     | 14 800            | 20 000 |         | 0,078      |
|                    | 1 7/8   | 1/2    | (KLNJ7/8)     |          | *   |    | *    |   |        | 12 000                         | 5 650                     | 14 800            |        |         | 0,102      |
|                    | 2       | 9/16   | LJ7/8         | *        | *   | *  | *    |   |        | 14 400                         | 6 550                     | 14 300            | 19 500 | 10 000  | 0,116      |
|                    | 2 1/4   | 1 1/16 | MJ7/8         | *        | *   | *  | *    |   |        | 19 200                         | 9 150                     | 13 300            | 18 000 | 9 300   | 0,197      |
| 1                  | 2       | 3/8    | KLNJ1         |          |     |    |      |   |        | 11 800                         | 5 950                     | 13 600            | 18 500 |         | 0,085      |
|                    | 2       | 1/2    | (KLNJ1)       | *        | *   | *  | *    |   |        | 11 800                         | 5 950                     | 13 600            | 18 500 | 9 500   | 0,112      |
|                    | 2 1/4   | 5/8    | LJ1           | *        | *   | *  | *    | * | *      | 18 600                         | 8 900                     | 12 700            | 17 000 | 8 900   | 0, 169     |
| 2 1/2              | 3/4     | MJ1    | *             | *        | *   | *  | *    | * | 22 100 | 10 600                         | 12 200                    | 16 500            | 8 500  | 0,262   |            |
| 1 1/8              | 2 1/8   | 3/8    | KLNJ1 1/8     |          |     |    |      |   |        | 11 700                         | 5 950                     | 13 000            | 17 500 |         | 0,088      |
|                    | 2 1/2   | 5/8    | LJ1 1/8       | *        | *   | *  | *    | * | *      | 20 200                         | 10 000                    | 11 700            | 15 500 | 8 200   | 0,219      |
|                    | 2 13/16 | 13/16  | MJ1 1/8       | *        | *   | *  | *    | * | *      | 30 800                         | 15 800                    | 10 800            | 14 500 | 7 500   | 0,347      |
| 1 1/4              | 2 1/4   | 3/8    | KLNJ1 1/4     |          |     |    |      |   |        | 12 800                         | 6 950                     | 11 900            | 16 000 |         | 0,096      |
|                    | 2 1/4   | 1/2    | (KLNJ1 1/4)   | *        | *   | *  | *    | * | *      | 12 800                         | 6 950                     | 11 900            |        |         | 0,128      |
|                    | 2 3/4   | 1 1/16 | LJ1 1/4       | *        | *   | *  | *    | * | *      | 27 700                         | 13 900                    | 10 600            | 14 400 | 7 400   | 0,276      |
|                    | 3 1/8   | 7/8    | MJ1 1/4       | *        | *   | *  | *    | * | *      | 37 700                         | 19 500                    | 9 800             | 13 200 | 6 800   | 0,476      |



# Townsend Bearings

## Single Row Radial Ball Bearings (IMPERIAL)

Shaft Dia. 1<sup>3</sup>/<sub>8</sub> - 3<sup>1</sup>/<sub>4</sub> inch

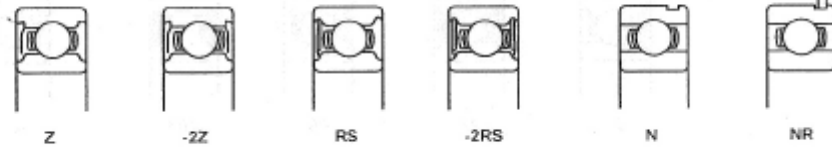
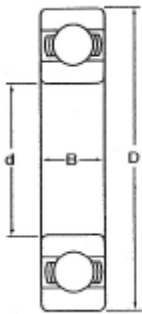


| Primary dimensions                |                                 |                                 | Basic bearing                     | Variants |     |    |      |   |    | Basic Load ratings             |                           | Limiting speeds   |        |         | mass<br>kg |
|-----------------------------------|---------------------------------|---------------------------------|-----------------------------------|----------|-----|----|------|---|----|--------------------------------|---------------------------|-------------------|--------|---------|------------|
| d<br>mm                           | D                               | B                               |                                   | Z        | -2Z | RS | -2RS | N | NR | dynamic<br>C <sub>r</sub><br>N | static<br>C <sub>0r</sub> | grease<br>rev/min | oil    | RS/-2RS |            |
| <b>1<sup>3</sup>/<sub>8</sub></b> | 2 <sup>1</sup> / <sub>2</sub>   | 7 <sup>7</sup> / <sub>16</sub>  | KLNJ1 <sup>3</sup> / <sub>8</sub> |          |     |    |      |   |    | 14 400                         | 7 550                     | 11 100            | 14 900 |         | 0,134      |
|                                   | 2 <sup>9</sup> / <sub>16</sub>  | 9 <sup>9</sup> / <sub>16</sub>  | XLJ1 <sup>3</sup> / <sub>8</sub>  | *        | *   | *  | *    | * | *  | 16 600                         | 8 500                     | 11 200            | 15 000 |         | 0,194      |
|                                   | 3                               | 1 <sup>11</sup> / <sub>16</sub> | LJ1 <sup>3</sup> / <sub>8</sub>   | *        | *   | *  | *    | * | *  | 30 200                         | 15 700                    | 9 800             | 13 200 | 6 800   | 0,333      |
|                                   | 3 <sup>1</sup> / <sub>2</sub>   | 7 <sup>7</sup> / <sub>8</sub>   | MJ1 <sup>3</sup> / <sub>8</sub>   | *        | *   | *  | *    | * | *  | 45 300                         | 23 900                    | 8 800             | 11 900 | 6 200   | 0,608      |
| <b>1<sup>1</sup>/<sub>2</sub></b> | 2 <sup>5</sup> / <sub>8</sub>   | 7 <sup>7</sup> / <sub>16</sub>  | KLNJ1 <sup>1</sup> / <sub>2</sub> |          |     |    |      |   |    | 15 000                         | 8 150                     | 10 300            | 13 900 |         | 0,142      |
|                                   | 2 <sup>11</sup> / <sub>16</sub> | 9 <sup>9</sup> / <sub>16</sub>  | XLJ1 <sup>1</sup> / <sub>2</sub>  | *        | *   | *  | *    | * | *  | 14 300                         | 7 500                     | 10 200            | 13 800 |         | 0,202      |
|                                   | 3 <sup>1</sup> / <sub>4</sub>   | 3 <sup>3</sup> / <sub>4</sub>   | LJ1 <sup>1</sup> / <sub>2</sub>   | *        | *   | *  | *    | * | *  | 34 800                         | 17 800                    | 9 000             | 12 200 | 6 300   | 0,418      |
|                                   | 3 <sup>3</sup> / <sub>4</sub>   | 1 <sup>15</sup> / <sub>16</sub> | MJ1 <sup>1</sup> / <sub>2</sub>   | *        | *   | *  | *    | * | *  | 49 500                         | 26 200                    | 8 200             | 11 000 | 5 700   | 0,753      |
| <b>1<sup>5</sup>/<sub>8</sub></b> | 2 <sup>7</sup> / <sub>8</sub>   | 9 <sup>9</sup> / <sub>16</sub>  | XLJ1 <sup>5</sup> / <sub>8</sub>  |          |     |    |      |   |    | 14 900                         | 8 150                     | 4 700             | 9 400  |         | 0,276      |
|                                   | 3 <sup>1</sup> / <sub>2</sub>   | 3 <sup>3</sup> / <sub>4</sub>   | LJ1 <sup>5</sup> / <sub>8</sub>   | *        | *   | *  | *    | * | *  | 38 700                         | 20 000                    | 8 400             | 11 300 | 5 900   | 0,481      |
|                                   | 4                               | 1 <sup>15</sup> / <sub>16</sub> | MJ1 <sup>5</sup> / <sub>8</sub>   | *        | *   | *  | *    | * | *  | 55 000                         | 29 900                    | 7 700             | 10 300 |         | 0,857      |
| <b>1<sup>3</sup>/<sub>4</sub></b> | 3                               | 9 <sup>9</sup> / <sub>16</sub>  | XLJ1 <sup>3</sup> / <sub>4</sub>  |          |     |    |      |   |    | 21 800                         | 12 200                    | 9 100             | 12 300 |         | 0,238      |
|                                   | 3 <sup>3</sup> / <sub>4</sub>   | 1 <sup>13</sup> / <sub>16</sub> | LJ1 <sup>3</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 22 300                         | 7 800                     | 10 600            | 5 500  |         | 0,594      |
|                                   | 4 <sup>1</sup> / <sub>4</sub>   | 1 <sup>11</sup> / <sub>16</sub> | MJ1 <sup>3</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 59 500                         | 32 700                    | 7 100             | 9 600  |         | 1,06       |
| <b>1<sup>7</sup>/<sub>8</sub></b> | 3 <sup>3</sup> / <sub>16</sub>  | 5 <sup>5</sup> / <sub>8</sub>   | XLJ1 <sup>7</sup> / <sub>8</sub>  |          |     |    |      |   |    | 22 700                         | 13 100                    | 8 300             | 11 200 |         | 0,297      |
|                                   | 4                               | 1 <sup>13</sup> / <sub>16</sub> | LJ1 <sup>7</sup> / <sub>8</sub>   | *        | *   | *  | *    | * | *  | 50 500                         | 27 800                    | 7 200             | 9 800  |         | 0,708      |
|                                   | 4 <sup>1</sup> / <sub>2</sub>   | 1 <sup>1</sup> / <sub>16</sub>  | MJ1 <sup>7</sup> / <sub>8</sub>   | *        | *   | *  | *    | * | *  | 69 000                         | 38 700                    | 6 600             | 8 900  |         | 1,22       |
| <b>2</b>                          | 3 <sup>5</sup> / <sub>16</sub>  | 5 <sup>5</sup> / <sub>8</sub>   | XLJ2                              |          |     |    |      |   |    | 22 700                         | 13 100                    | 8 300             | 11 200 |         | 0,317      |
|                                   | 4                               | 1 <sup>13</sup> / <sub>16</sub> | LJ2                               | *        | *   | *  | *    | * | *  | 50 500                         | 27 800                    | 7 200             | 9 800  |         | 0,667      |
|                                   | 4 <sup>1</sup> / <sub>2</sub>   | 1 <sup>1</sup> / <sub>16</sub>  | MJ2                               | *        | *   | *  | *    | * | *  | 69 000                         | 38 700                    | 6 600             | 8 900  |         | 1,17       |
| <b>2<sup>1</sup>/<sub>4</sub></b> | 3 <sup>9</sup> / <sub>16</sub>  | 5 <sup>5</sup> / <sub>8</sub>   | XLJ2 <sup>1</sup> / <sub>4</sub>  |          |     |    |      |   |    | 29 400                         | 17 000                    | 7 600             | 10 300 |         | 0,338      |
|                                   | 4 <sup>1</sup> / <sub>2</sub>   | 7 <sup>7</sup> / <sub>8</sub>   | LJ2 <sup>1</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 60 000                         | 32 700                    | 6 400             | 8 600  |         | 0,885      |
|                                   | 5                               | 1 <sup>1</sup> / <sub>4</sub>   | MJ2 <sup>1</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 85 000                         | 48 500                    | 5 900             | 8 000  |         | 1,60       |
| <b>2<sup>1</sup>/<sub>2</sub></b> | 3 <sup>7</sup> / <sub>8</sub>   | 1 <sup>11</sup> / <sub>16</sub> | XLJ2 <sup>1</sup> / <sub>2</sub>  |          |     |    |      |   |    | 31 800                         | 19 600                    | 6 700             | 9 000  |         | 0,421      |
|                                   | 5                               | 1 <sup>15</sup> / <sub>16</sub> | LJ2 <sup>1</sup> / <sub>2</sub>   | *        | *   | *  | *    | * | *  | 65 500                         | 36 800                    | 5 700             | 7 700  |         | 1,22       |
|                                   | 5 <sup>1</sup> / <sub>2</sub>   | 1 <sup>1</sup> / <sub>4</sub>   | MJ2 <sup>1</sup> / <sub>2</sub>   | *        | *   | *  | *    | * | *  | 96 500                         | 55 500                    | 5 300             | 7 100  |         | 2,04       |
| <b>2<sup>3</sup>/<sub>4</sub></b> | 4 <sup>1</sup> / <sub>4</sub>   | 1 <sup>11</sup> / <sub>16</sub> | XLJ2 <sup>3</sup> / <sub>4</sub>  |          |     |    |      |   |    | 24 500                         | 15 900                    | 3 100             | 6 300  |         | 0,535      |
|                                   | 5 <sup>1</sup> / <sub>4</sub>   | 1 <sup>15</sup> / <sub>16</sub> | LJ2 <sup>3</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 70 000                         | 40 900                    | 5 300             | 7 200  |         | 1,33       |
|                                   | 6 <sup>1</sup> / <sub>4</sub>   | 1 <sup>13</sup> / <sub>8</sub>  | MJ2 <sup>3</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 118 000                        | 71 500                    | 4 600             | 6 200  |         | 2,89       |
| <b>3</b>                          | 4 <sup>1</sup> / <sub>2</sub>   | 3 <sup>3</sup> / <sub>4</sub>   | XLJ3                              |          |     |    |      |   |    | 41 100                         | 26 100                    | 5 800             | 7 800  |         | 0,753      |
|                                   | 5 <sup>3</sup> / <sub>4</sub>   | 1 <sup>11</sup> / <sub>16</sub> | LJ3                               | *        | *   | *  | *    | * | *  | 81 500                         | 48 300                    | 4 800             | 6 500  |         | 1,81       |
|                                   | 7                               | 1 <sup>9</sup> / <sub>16</sub>  | MJ3                               | *        | *   | *  | *    | * | *  | 138 000                        | 89 500                    | 4 000             | 5 400  |         | 4,25       |
| <b>3<sup>1</sup>/<sub>4</sub></b> | 4 <sup>3</sup> / <sub>4</sub>   | 3 <sup>3</sup> / <sub>4</sub>   | XLJ3 <sup>1</sup> / <sub>4</sub>  |          |     |    |      |   |    | 30 500                         | 21 200                    | 2 700             | 5 400  |         | 0,807      |
|                                   | 6                               | 1 <sup>11</sup> / <sub>16</sub> | LJ3 <sup>1</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 87 500                         | 52 500                    | 4 500             | 6 100  |         | 1,87       |
|                                   | 7 <sup>1</sup> / <sub>2</sub>   | 1 <sup>9</sup> / <sub>16</sub>  | MJ3 <sup>1</sup> / <sub>4</sub>   | *        | *   | *  | *    | * | *  | 139 000                        | 89 500                    | 3 800             | 5 100  |         | 4,99       |

Single Row Radial  
Ball Bearings (IMPERIAL)  
Shaft Dia. 3<sup>3</sup>/<sub>8</sub> - 6 inch



**Townsend  
Bearings**

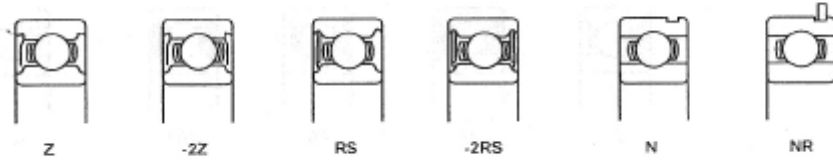
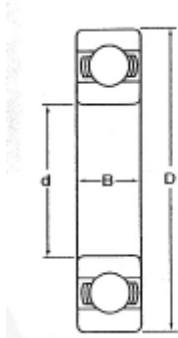


| Primary dimensions                |                                |                                | Basic bearing                    | Variants |     |    |      |   |    | Basic Load ratings             |                           | Limiting speeds   |       | mass<br>kg |
|-----------------------------------|--------------------------------|--------------------------------|----------------------------------|----------|-----|----|------|---|----|--------------------------------|---------------------------|-------------------|-------|------------|
| d<br>mm                           | D                              | B                              |                                  | Z        | -ZZ | RS | -2RS | N | NR | dynamic<br>C <sub>r</sub><br>N | static<br>C <sub>0r</sub> | grease<br>rev/min | oil   |            |
| <b>3<sup>3</sup>/<sub>8</sub></b> | 7 <sup>1</sup> / <sub>2</sub>  | 1 <sup>9</sup> / <sub>16</sub> | MJ3 <sup>3</sup> / <sub>8</sub>  |          |     |    |      |   |    | 139 000                        | 89 500                    | 3 800             | 5 100 | 4,90       |
| <b>3<sup>1</sup>/<sub>2</sub></b> | 5                              | <sup>3</sup> / <sub>4</sub>    | XLJ3 <sup>1</sup> / <sub>2</sub> |          |     |    |      |   |    | 34 100                         | 23 500                    | 5 000             | 6 800 | 0,785      |
|                                   | 6 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>8</sub>  | LJ3 <sup>1</sup> / <sub>2</sub>  |          |     |    |      |   |    | 100 000                        | 60 500                    | 4 200             | 5 600 | 2,33       |
|                                   | 8 <sup>1</sup> / <sub>8</sub>  | 1 <sup>3</sup> / <sub>4</sub>  | MJ3 <sup>1</sup> / <sub>2</sub>  |          |     |    |      |   |    | 169 000                        | 120 000                   | 3 400             | 4 600 | 6,53       |
| <b>3<sup>3</sup>/<sub>4</sub></b> | 5 <sup>1</sup> / <sub>4</sub>  | <sup>3</sup> / <sub>4</sub>    | XLJ3 <sup>3</sup> / <sub>4</sub> |          |     |    |      |   |    | 40 600                         | 28 800                    | 4 700             | 6 400 | 0,844      |
|                                   | 6 <sup>3</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>8</sub>  | LJ3 <sup>3</sup> / <sub>4</sub>  |          |     |    |      |   |    | 106 000                        | 66 500                    | 3 900             | 5 300 | 2,47       |
|                                   | 8 <sup>1</sup> / <sub>4</sub>  | 1 <sup>3</sup> / <sub>4</sub>  | MJ3 <sup>3</sup> / <sub>4</sub>  |          |     |    |      |   |    | 169 000                        | 120 000                   | 3 400             | 4 600 | 6,53       |
| <b>4</b>                          | 5 <sup>5</sup> / <sub>8</sub>  | <sup>7</sup> / <sub>8</sub>    | XLJ4E                            |          |     |    |      |   |    | 41 400                         | 30 300                    | 2 200             | 4 400 | 1,15       |
|                                   | 7 <sup>1</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | LJ4E                             |          |     |    |      |   |    | 120 000                        | 74 500                    | 3 800             | 5 100 | 3,18       |
|                                   | 8 <sup>1</sup> / <sub>2</sub>  | 1 <sup>3</sup> / <sub>4</sub>  | MJ4E                             |          |     |    |      |   |    | 170 000                        | 120 000                   | 3 200             | 4 400 | 6,71       |
| <b>4<sup>1</sup>/<sub>4</sub></b> | 6                              | <sup>7</sup> / <sub>8</sub>    | XLJ4 <sup>1</sup> / <sub>4</sub> |          |     |    |      |   |    | 48 400                         | 36 500                    | 4 100             | 5 500 | 1,13       |
|                                   | 7 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | LJ4 <sup>1</sup> / <sub>4</sub>  |          |     |    |      |   |    | 127 000                        | 81 500                    | 3 500             | 4 700 | 3,86       |
|                                   | 8 <sup>3</sup> / <sub>4</sub>  | 1 <sup>3</sup> / <sub>4</sub>  | MJ4 <sup>1</sup> / <sub>4</sub>  |          |     |    |      |   |    | 171 000                        | 120 000                   | 3 100             | 4 200 | 8,16       |
| <b>4<sup>1</sup>/<sub>2</sub></b> | 6 <sup>1</sup> / <sub>4</sub>  | <sup>7</sup> / <sub>8</sub>    | XLJ4 <sup>1</sup> / <sub>2</sub> |          |     |    |      |   |    | 55 500                         | 40 200                    | 3 900             | 5 200 | 1,14       |
|                                   | 8                              | <sup>15</sup> / <sub>16</sub>  | LJ4 <sup>1</sup> / <sub>2</sub>  |          |     |    |      |   |    | 147 000                        | 98 500                    | 3 300             | 4 400 | 4,67       |
|                                   | 9 <sup>3</sup> / <sub>8</sub>  | 2                              | MJ4 <sup>1</sup> / <sub>2</sub>  |          |     |    |      |   |    | 203 000                        | 155 000                   | 2 800             | 3 800 | 10,7       |
| <b>4<sup>3</sup>/<sub>4</sub></b> | 6 <sup>1</sup> / <sub>2</sub>  | <sup>7</sup> / <sub>8</sub>    | XLJ4 <sup>3</sup> / <sub>4</sub> |          |     |    |      |   |    | 57 000                         | 42 400                    | 3 700             | 5 000 | 1,21       |
|                                   | 8 <sup>1</sup> / <sub>4</sub>  | <sup>15</sup> / <sub>16</sub>  | LJ4 <sup>3</sup> / <sub>4</sub>  |          |     |    |      |   |    | 134 000                        | 87 000                    | 3 100             | 4 200 | 4,90       |
|                                   | 10                             | 2                              | MJ4 <sup>3</sup> / <sub>4</sub>  |          |     |    |      |   |    | 209 000                        | 160 000                   | 2 600             | 3 500 | 13,2       |
| <b>5</b>                          | 7                              | 1                              | XLJ5E                            |          |     |    |      |   |    | 68 000                         | 50 000                    | 3 400             | 4 600 | 1,68       |
|                                   | 9                              | <sup>13</sup> / <sub>8</sub>   | LJ5E                             |          |     |    |      |   |    | 154 000                        | 107 000                   | 2 700             | 3 700 | 6,35       |
|                                   | 10                             | 2                              | MJ5E                             |          |     |    |      |   |    | 209 000                        | 160 000                   | 2 600             | 3 500 | 12,2       |
| <b>5<sup>1</sup>/<sub>4</sub></b> | 7 <sup>1</sup> / <sub>4</sub>  | 1                              | XLJ5 <sup>1</sup> / <sub>4</sub> |          |     |    |      |   |    | 51 000                         | 39 600                    | 1 600             | 3 200 | 2,10       |
| <b>5<sup>1</sup>/<sub>2</sub></b> | 7 <sup>1</sup> / <sub>2</sub>  | 1                              | XLJ5 <sup>1</sup> / <sub>2</sub> |          |     |    |      |   |    | 57 000                         | 47 500                    | 1 500             | 3 100 | 2,20       |
|                                   | 9 <sup>1</sup> / <sub>2</sub>  | <sup>13</sup> / <sub>8</sub>   | LJ5 <sup>1</sup> / <sub>2</sub>  |          |     |    |      |   |    | 153 000                        | 107 000                   | 2 500             | 3 400 | 6,85       |
|                                   | 11                             | 2                              | MJ5 <sup>1</sup> / <sub>2</sub>  |          |     |    |      |   |    | 221 000                        | 174 000                   | 2 300             | 3 100 | 14,9       |
| <b>5<sup>3</sup>/<sub>4</sub></b> | 7 <sup>3</sup> / <sub>4</sub>  | 1                              | XLJ5 <sup>3</sup> / <sub>4</sub> |          |     |    |      |   |    | 53 500                         | 43 500                    | 1 500             | 3 000 | 2,29       |
| <b>6</b>                          | 8                              | 1                              | XLJ6E                            |          |     |    |      |   |    | 54 500                         | 45 500                    | 1 400             | 2 800 | 2,37       |
|                                   | 10 <sup>1</sup> / <sub>2</sub> | <sup>19</sup> / <sub>16</sub>  | XL6E                             |          |     |    |      |   |    | 180 000                        | 134 000                   | 2 300             | 3 100 | 9,48       |
|                                   | 12                             | 2 <sup>1</sup> / <sub>4</sub>  | MJ6E                             |          |     |    |      |   |    | 259 000                        | 218 000                   | 2 100             | 2 800 | 19,5       |



# Townsend Bearings

Single Row Radial  
Ball Bearings (IMPERIAL)  
Shaft Dia. 6½ - 12 inch



| Primary dimensions |      |                  | Basic bearing | Variants |     |    |      |   |    | Basic Load ratings             |                           | Limiting speeds   |       |         | mass<br>kg |
|--------------------|------|------------------|---------------|----------|-----|----|------|---|----|--------------------------------|---------------------------|-------------------|-------|---------|------------|
| d<br>mm            | D    | B                |               | Z        | -2Z | RS | -2RS | N | NR | dynamic<br>C <sub>r</sub><br>N | static<br>C <sub>0r</sub> | grease<br>rev/min | oil   | RS/-2RS |            |
| <b>6½</b>          | 8¾   | 1⅛               | XLJ6½         |          |     |    |      |   |    | 66 000                         | 55 000                    | 1 300             | 2 600 |         | 3,13       |
|                    | 11   | 1⅞ <sub>16</sub> | LJ6½          |          |     |    |      |   |    | 188 000                        | 145 000                   | 2 100             | 2 900 |         | 10,2       |
|                    | 13   | 2½               | MJ6½          |          |     |    |      |   |    | 286 000                        | 251 000                   | 1 900             | 2 500 |         | 26,5       |
| <b>7</b>           | 9½   | 1¼               | XLJ73         |          |     |    |      |   |    | 77 500                         | 65 000                    | 1 200             | 2 300 |         | 4,23       |
|                    | 12   | 1¾               | LJ7E          |          |     |    |      |   |    | 221 000                        | 180 000                   | 1 900             | 2 600 |         | 14,1       |
|                    | 13½  | 2½               | MJ7E          |          |     |    |      |   |    | 306 000                        | 278 000                   | 1 700             | 2 400 |         | 27,5       |
| <b>7½</b>          | 10   | 1¼               | XLJ7½         |          |     |    |      |   |    | 79 000                         | 68 000                    | 1 100             | 2 200 |         | 4,50       |
|                    | 12½  | 1¾               | LJ7½          |          |     |    |      |   |    | 231 000                        | 195 000                   | 1 800             | 2 400 |         | 14,5       |
|                    | 14½  | 2¾               | MJ7½          |          |     |    |      |   |    | 340 000                        | 322 000                   | 1 600             | 2 200 |         | 35,4       |
| <b>8</b>           | 10¾  | 1⅜               | XLJ8E         |          |     |    |      |   |    | 94 500                         | 82 500                    | 1 000             | 2 000 |         | 5,81       |
|                    | 13   | 1¾               | LJ8E          |          |     |    |      |   |    | 230 000                        | 195 000                   | 1 700             | 2 300 |         | 15,6       |
|                    | 15   | 2¾               | MJ8E          |          |     |    |      |   |    | 366 000                        | 358 000                   | 1 500             | 2 000 |         | 36,5       |
| <b>8½</b>          | 11½  | 1½               | XLJ8½         |          |     |    |      |   |    | 108 000                        | 95 500                    | 900               | 1 800 |         | 7,44       |
|                    | 14   | 2                | LJ8½          |          |     |    |      |   |    | 263 000                        | 232 000                   | 1 500             | 2 100 |         | 21,1       |
|                    | 16   | 3                | MJ8½          |          |     |    |      |   |    | 396 000                        | 401 000                   | 1 400             | 1 800 |         | 47,2       |
| <b>9</b>           | 12   | 1½               | XLJ9E         |          |     |    |      |   |    | 110 000                        | 98 000                    | 850               | 1 700 |         | 7,85       |
|                    | 14½  | 2                | LJ9E          |          |     |    |      |   |    | 275 000                        | 251 000                   | 1 500             | 2 000 |         | 22,0       |
|                    | 17   | 3                | MJ9E          |          |     |    |      |   |    |                                |                           |                   |       |         | 53,1       |
| <b>9½</b>          | 12¾  | 1⅝               | XLJ9½         |          |     |    |      |   |    | 127 000                        | 115 000                   | 800               | 1 600 |         | 9,53       |
|                    | 15⅛  | 2                | LJ9½          |          |     |    |      |   |    | 287 000                        | 271 000                   | 1 400             | 1 800 |         | 22,7       |
| <b>10</b>          | 13¾  | 1⅝               | XLJ10E        |          |     |    |      |   |    | 130 000                        | 120 000                   | 750               | 1 500 |         | 9,89       |
|                    | 15¾  | 2                | LJ10E         |          |     |    |      |   |    | 285 000                        | 271 000                   | 1 300             | 1 700 |         | 25,5       |
|                    | 18½  | 3¼               | MJ10E         |          |     |    |      |   |    |                                |                           |                   |       |         | 66,7       |
| <b>10½</b>         | 14   | 1¾               | XLJ10½        |          |     |    |      |   |    |                                | 145 000                   | 133 000           | 700   | 1 400   |            |
|                    | 12,5 | 16⅝              | 2¼            | LJ10½    |     |    |      |   |    | 338 000                        | 339 000                   | 1 200             | 1 600 |         | 32,5       |
| <b>11</b>          | 14½  | 1¾               | XLJ11E        |          |     |    |      |   |    | 148 000                        | 139 000                   | 650               | 1 300 |         | 13,3       |
|                    | 17½  | 2½               | LJ11E         |          |     |    |      |   |    | 335 000                        | 339 000                   | 1 200             | 1 600 |         | 36,1       |
|                    | 20   | 3½               | MJ11E         |          |     |    |      |   |    |                                |                           |                   |       |         | 82,5       |
| <b>11½</b>         | 15¼  | 1⅞               | XLJ11½        |          |     |    |      |   |    | 169 000                        | 160 000                   | 600               | 1 200 |         | 15,9       |
|                    | 18   | 2⅞               | LJ11½         |          |     |    |      |   |    | 371 000                        | 390 000                   | 1 100             | 1 400 |         | 38,5       |
| <b>12</b>          | 16   | 2                | XLJ12E        |          |     |    |      |   |    | 190 000                        | 182 000                   | 550               | 1 100 |         | 18,6       |
|                    | 18½  | 2⅝               | LJ12E         |          |     |    |      |   |    | 388 000                        | 412 000                   | 1 000             | 1 400 |         | 44,5       |
|                    | 21½  | 3¾               | MJ12E         |          |     |    |      |   |    | 557 000                        | 654 000                   | 900               | 1 200 |         | 99,8       |



**Townsend  
Bearings**

## **Townsend Bearings & Transmissions Limited**

**Unit 1, St.Andrews Industrial Estate,  
Bridport, Dorset. DT6 3EX. England.**

**Tel : 01308 456933 (UK only) +44 1308 456933 (Outside the UK)  
Fax : 01308 427913 (UK only) +44 1308 427913 (Outside the UK)**

**Email : [sales@townsendbearings.co.uk](mailto:sales@townsendbearings.co.uk)**

**[www.townsendbearings.co.uk](http://www.townsendbearings.co.uk)**