

# Double Row TDO Series

| <div><div></div></div>     |        |        |        |                        |      |                        |                |                 |                  |                        |      |              | <div><div></div></div> |                                           |                                      |                                             |                                      |                  |                |                |                |                |                         |  |  |
|----------------------------|--------|--------|--------|------------------------|------|------------------------|----------------|-----------------|------------------|------------------------|------|--------------|------------------------|-------------------------------------------|--------------------------------------|---------------------------------------------|--------------------------------------|------------------|----------------|----------------|----------------|----------------|-------------------------|--|--|
| Bearing Dimensions(mm/in.) |        |        |        | Load Ratings(N/lbf)    |      |                        |                |                 |                  |                        |      | Номер части: |                        | Bearing Dimensions(mm/in.)                |                                      |                                             |                                      | Geometry Factors |                |                |                |                |                         |  |  |
| Dynamic <sup>(1)</sup>     |        |        |        | Factors <sup>(2)</sup> |      | Dynamic <sup>(3)</sup> |                |                 |                  | Factors <sup>(2)</sup> |      | Shaft        |                        | Housing                                   |                                      | Pin(mm/in.)                                 |                                      |                  |                |                |                |                |                         |  |  |
| Д:                         | Д:     | Т      | Мечта  | C <sub>1(2)</sub>      | e    | Y <sub>1</sub>         | Y <sub>2</sub> | C <sub>90</sub> | C <sub>200</sub> | C <sub>90(2)</sub>     | К    | Inner        | Outer                  | Max. Shaft Fillet Radius R <sup>(4)</sup> | Backing Shoulder Dia. d <sub>b</sub> | Max. Housing Fillet Radius r <sup>(4)</sup> | Backing Shoulder Dia. D <sub>s</sub> | K <sub>s</sub>   | K <sub>b</sub> | G <sub>1</sub> | G <sub>2</sub> | C <sub>9</sub> | Bearing Weight(kg/lbs.) |  |  |
| 11.987                     | 30.48  | 25.4   | 21.26  | 18800                  | 0.41 | 1.67                   | 2.48           | 2800            | 1940             | 4880                   | 1.44 | A2047        | A2120D                 | 0.8                                       | 16.5                                 | 0.4                                         | 28                                   | -                | -              | 1.7            | 3.2            | 0.0308         | 0.09                    |  |  |
| 0.4719                     | 1.2    | 1      | 0.837  | 4230                   | 0.41 | 1.67                   | 2.48           | 630             | 437              | 1100                   | 1.44 | A2047        | A2120D                 | 0.03                                      | 0.65                                 | 0.02                                        | 1.1                                  | -                | -              | 1.7            | 3.2            | 0.0308         | 0.19                    |  |  |
| 14.989                     | 34.988 | 25.174 | 20.638 | 22900                  | 0.45 | 1.49                   | 2.22           | 3410            | 2640             | 5940                   | 1.29 | A4059        | A4138D                 | 0.8                                       | 19.5                                 | 0.6                                         | 31.5                                 | -                | -              | 2.3            | 4.1            | 0.0355         | 0.11                    |  |  |
| 0.5901                     | 1.3775 | 0.9911 | 0.8125 | 5150                   | 0.45 | 1.49                   | 2.22           | 767             | 594              | 1330                   | 1.29 | A4059        | A4138D                 | 0.03                                      | 0.77                                 | 0.03                                        | 1.24                                 | -                | -              | 2.3            | 4.1            | 0.0355         | 0.26                    |  |  |
| 16.993                     | 47     | 31.75  | 25.212 | 46500                  | 0.36 | 1.89                   | 2.82           | 6930            | 4230             | 12100                  | 1.64 | 5066         | 05185D                 | 1.5                                       | 24.5                                 | 0.8                                         | 42.5                                 | -                | -              | 5.8            | 5.5            | 0.0448         | 0.29                    |  |  |
| 0.669                      | 1.8504 | 1.25   | 0.9926 | 10500                  | 0.36 | 1.89                   | 2.82           | 1560            | 952              | 2710                   | 1.64 | 5066         | 05185D                 | 0.06                                      | 0.96                                 | 0.03                                        | 1.67                                 | -                | -              | 5.8            | 5.5            | 0.0448         | 0.62                    |  |  |
| 19.05                      | 47     | 31.75  | 25.212 | 46500                  | 0.36 | 1.89                   | 2.82           | 6930            | 4230             | 12100                  | 1.64 | 5075         | 05185D                 | 1.3                                       | 25                                   | 0.8                                         | 42.5                                 | -                | -              | 5.8            | 5.5            | 0.0448         | 0.27                    |  |  |
| 0.75                       | 1.8504 | 1.25   | 0.9926 | 10500                  | 0.36 | 1.89                   | 2.82           | 1560            | 952              | 2710                   | 1.64 | 5075         | 05185D                 | 0.05                                      | 0.98                                 | 0.03                                        | 1.67                                 | -                | -              | 5.8            | 5.5            | 0.0448         | 0.59                    |  |  |
| 19.05                      | 57.15  | 49.212 | 36.512 | 95900                  | 0.59 | 1.14                   | 1.7            | 14300           | 14400            | 24900                  | 0.99 | 21075        | 21226D                 | 1.5                                       | 31.5                                 | 0.8                                         | 51                                   | -                | -              | 7              | 4.1            | 0.0558         | 0.65                    |  |  |
| 0.75                       | 2.25   | 1.9375 | 1.4375 | 21600                  | 0.59 | 1.14                   | 1.7            | 3210            | 3250             | 5590                   | 0.99 | 21075        | 21226D                 | 0.06                                      | 1.24                                 | 0.03                                        | 2.01                                 | -                | -              | 7              | 4.1            | 0.0558         | 1.44                    |  |  |
| 19.987                     | 47     | 31.75  | 25.212 | 46500                  | 0.36 | 1.89                   | 2.82           | 6930            | 4230             | 12100                  | 1.64 | 5079         | 05185D                 | 1.5                                       | 26.5                                 | 0.8                                         | 42.5                                 | -                | -              | 5.8            | 5.5            | 0.0448         | 0.27                    |  |  |
| 0.7869                     | 1.8504 | 1.25   | 0.9926 | 10500                  | 0.36 | 1.89                   | 2.82           | 1560            | 952              | 2710                   | 1.64 | 5079         | 05185D                 | 0.06                                      | 1.04                                 | 0.03                                        | 1.67                                 | -                | -              | 5.8            | 5.5            | 0.0448         | 0.57                    |  |  |
| 20                         | 50.005 | 33.34  | 25.4   | 50700                  | 0.4  | 1.68                   | 2.5            | 7550            | 5190             | 13100                  | 1.45 | 7079         | 07196D                 | 1.5                                       | 27.5                                 | 0.6                                         | 46.5                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.31                    |  |  |
| 0.7874                     | 1.9687 | 1.3126 | 1      | 11400                  | 0.4  | 1.68                   | 2.5            | 1700            | 1170             | 2950                   | 1.45 | 7079         | 07196D                 | 0.06                                      | 1.08                                 | 0.03                                        | 1.83                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.7                     |  |  |
| 24.384                     | 80.962 | 55.562 | 39.688 | 160000                 | 0.67 | 1.01                   | 1.5            | 23900           | 27300            | 41500                  | 0.87 | 43096        | 43319D                 | 0.8                                       | 40.5                                 | 1.5                                         | 74                                   | -                | -              | 16.8           | 7.6            | 0.0774         | 1.43                    |  |  |
| 0.96                       | 3.1875 | 2.1875 | 1.5625 | 36000                  | 0.67 | 1.01                   | 1.5            | 5360            | 6130             | 9340                   | 0.87 | 43096        | 43319D                 | 0.03                                      | 1.59                                 | 0.06                                        | 2.91                                 | -                | -              | 16.8           | 7.6            | 0.0774         | 3.14                    |  |  |
| 24.981                     | 50.005 | 33.34  | 25.4   | 50700                  | 0.4  | 1.68                   | 2.5            | 7550            | 5190             | 13100                  | 1.45 | 7098         | 07196D                 | 1.5                                       | 31                                   | 0.6                                         | 46.5                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.27                    |  |  |
| 0.9835                     | 1.9687 | 1.3126 | 1      | 11400                  | 0.4  | 1.68                   | 2.5            | 1700            | 1170             | 2950                   | 1.45 | 7098         | 07196D                 | 0.06                                      | 1.22                                 | 0.03                                        | 1.83                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.61                    |  |  |
| 24.981                     | 62     | 39.688 | 36.258 | 75300                  | 0.38 | 1.77                   | 2.63           | 11200           | 7340             | 19500                  | 1.53 | 17098        | 17245D                 | 1.5                                       | 33                                   | 0.8                                         | 57                                   | -                | -              | 11.8           | 7.5            | 0.0579         | 0.6                     |  |  |
| 0.9835                     | 2.4409 | 1.5625 | 1.4275 | 16900                  | 0.38 | 1.77                   | 2.63           | 2520            | 1650             | 4390                   | 1.53 | 17098        | 17245D                 | 0.06                                      | 1.3                                  | 0.03                                        | 2.24                                 | -                | -              | 11.8           | 7.5            | 0.0579         | 1.33                    |  |  |
| 25                         | 50.005 | 33.34  | 25.4   | 50700                  | 0.4  | 1.68                   | 2.5            | 7550            | 5190             | 13100                  | 1.45 | 7097         | 07196D                 | 1.5                                       | 31                                   | 0.6                                         | 46.5                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.27                    |  |  |
| 0.9843                     | 1.9687 | 1.3126 | 1      | 11400                  | 0.4  | 1.68                   | 2.5            | 1700            | 1170             | 2950                   | 1.45 | 7097         | 07196D                 | 0.06                                      | 1.22                                 | 0.03                                        | 1.83                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.61                    |  |  |
| 25                         | 62     | 39.688 | 36.258 | 75300                  | 0.38 | 1.77                   | 2.63           | 11200           | 7340             | 19500                  | 1.53 | 17098X       | 17245D                 | 1.5                                       | 33                                   | 0.8                                         | 57                                   | -                | -              | 11.8           | 7.5            | 0.0579         | 0.6                     |  |  |
| 0.9843                     | 2.4409 | 1.5625 | 1.4275 | 16900                  | 0.38 | 1.77                   | 2.63           | 2520            | 1650             | 4390                   | 1.53 | 17098X       | 17245D                 | 0.06                                      | 1.3                                  | 0.03                                        | 2.24                                 | -                | -              | 11.8           | 7.5            | 0.0579         | 1.33                    |  |  |
| 25.4                       | 50.005 | 33.34  | 25.4   | 50700                  | 0.4  | 1.68                   | 2.5            | 7550            | 5190             | 13100                  | 1.45 | 07100-S      | 07196D                 | 1.5                                       | 31.5                                 | 0.6                                         | 46.5                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.27                    |  |  |
| 1                          | 1.9687 | 1.3126 | 1      | 11400                  | 0.4  | 1.68                   | 2.5            | 1700            | 1170             | 2950                   | 1.45 | 07100-S      | 07196D                 | 0.06                                      | 1.24                                 | 0.03                                        | 1.83                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.6                     |  |  |
| 25.4                       | 50.005 | 33.34  | 25.4   | 50700                  | 0.4  | 1.68                   | 2.5            | 7550            | 5190             | 13100                  | 1.45 | 07100-SA     | 07196D                 | 3.3                                       | 35                                   | 0.6                                         | 46.5                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.27                    |  |  |
| 1                          | 1.9687 | 1.3126 | 1      | 11400                  | 0.4  | 1.68                   | 2.5            | 1700            | 1170             | 2950                   | 1.45 | 07100-SA     | 07196D                 | 0.13                                      | 1.38                                 | 0.03                                        | 1.83                                 | -                | -              | 7.6            | 7.1            | 0.0509         | 0.59                    |  |  |
| 25.4                       | 63.5   | 46.038 | 36.512 | 104000                 | 0.35 | 1.93                   | 2.87           | 15500           | 9310             | 27000                  | 1.67 | 15101        | 15251D                 | 0.8                                       | 32.5                                 | 0.8                                         | 59                                   | -                | -              | 14.6           | 10             | 0.0606         | 0.73                    |  |  |
| 1                          | 2.5    | 1.8125 | 1.4375 | 23400                  | 0.35 | 1.93                   | 2.87           | 3490            | 2090             | 6080                   | 1.67 | 15101        | 15251D                 | 0.03                                      | 1.28                                 | 0.03                                        | 2.32                                 | -                | -              | 14.6           | 10             | 0.0606         | 1.59                    |  |  |