

Double Row TDI Series

|                            |         |        |        |                        |     |                        |                |                 |                            |                    |                        |        | <div></div> |                                           |                                      |                                             |                                      |                                                                                 |      |        |       |  |  |
|----------------------------|---------|--------|--------|------------------------|-----|------------------------|----------------|-----------------|----------------------------|--------------------|------------------------|--------|-------------|-------------------------------------------|--------------------------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------|------|--------|-------|--|--|
| Bearing Dimensions(mm/in.) |         |        |        | Load Ratings(N/lbf)    |     |                        |                | رقم القطعة:     | Bearing Dimensions(mm/in.) |                    |                        |        |             | Geometry Factors                          |                                      |                                             |                                      |                                                                                 |      |        |       |  |  |
|                            |         |        |        | Dynamic <sup>(1)</sup> |     | Factors <sup>(2)</sup> |                |                 | Dynamic <sup>(3)</sup>     |                    | Factors <sup>(2)</sup> |        |             | Shaft                                     |                                      | Housing                                     |                                      | G <sub>1</sub> G <sub>2</sub> C <sub>9</sub> <div>Bearing Weight(kg/lbs.)</div> |      |        |       |  |  |
| د:                         | د:      | T      | ب:     | C <sub>1(2)</sub>      | e   | Y <sub>1</sub>         | Y <sub>2</sub> | C <sub>90</sub> | C <sub>a90</sub>           | C <sub>90(2)</sub> | K                      | Inner  | Outer       | Max. Shaft Fillet Radius R <sup>(4)</sup> | Backing Shoulder Dia. d <sub>s</sub> | Max. Housing Fillet Radius r <sup>(4)</sup> | Backing Shoulder Dia. D <sub>b</sub> |                                                                                 |      |        |       |  |  |
| 31.75                      | 69.012  | 39.705 | 39.182 | 95100                  | 0.4 | 1.8                    | 2.6            | 14200           | 9260                       | 24600              | 1.53                   | 14126D | 14276       | 1.5                                       | 40                                   | 1.3                                         | 60                                   | 18                                                                              | 13.3 | 0.0668 | 0.71  |  |  |
| 1.25                       | 2.717   | 1.5632 | 1.5426 | 21400                  | 0.4 | 1.8                    | 2.6            | 3180            | 2080                       | 5540               | 1.53                   | 14126D | 14276       | 0.06                                      | 1.57                                 | 0.05                                        | 2.36                                 | 18                                                                              | 13.3 | 0.0668 | 1.57  |  |  |
| 42.862                     | 80.962  | 34.925 | 31.75  | 88500                  | 0.5 | 1.3                    | 1.9            | 13200           | 11900                      | 22900              | 1.11                   | 13169D | 13318       | 0.8                                       | 50                                   | 1.5                                         | 72                                   | 23                                                                              | 19.2 | 0.0799 | 0.77  |  |  |
| 1.6875                     | 3.1875  | 1.375  | 1.25   | 19900                  | 0.5 | 1.3                    | 1.9            | 2960            | 2680                       | 5160               | 1.11                   | 13169D | 13318       | 0.03                                      | 1.97                                 | 0.06                                        | 2.83                                 | 23                                                                              | 19.2 | 0.0799 | 1.71  |  |  |
| 44.45                      | 80.962  | 34.925 | 31.75  | 88500                  | 0.5 | 1.3                    | 1.9            | 13200           | 11900                      | 22900              | 1.11                   | 13176D | 13318       | 0.1                                       | 50                                   | 1.5                                         | 72                                   | 23                                                                              | 19.2 | 0.0799 | 0.74  |  |  |
| 1.75                       | 3.1875  | 1.375  | 1.25   | 19900                  | 0.5 | 1.3                    | 1.9            | 2960            | 2680                       | 5160               | 1.11                   | 13176D | 13318       | 0.01                                      | 1.97                                 | 0.06                                        | 2.83                                 | 23                                                                              | 19.2 | 0.0799 | 1.65  |  |  |
| 46.037                     | 80.962  | 34.925 | 31.75  | 88500                  | 0.5 | 1.3                    | 1.9            | 13200           | 11900                      | 22900              | 1.11                   | 13182D | 13318       | 0.8                                       | 52                                   | 1.5                                         | 72                                   | 23                                                                              | 19.2 | 0.0799 | 0.73  |  |  |
| 1.8125                     | 3.1875  | 1.375  | 1.25   | 19900                  | 0.5 | 1.3                    | 1.9            | 2960            | 2680                       | 5160               | 1.11                   | 13182D | 13318       | 0.03                                      | 2.05                                 | 0.06                                        | 2.83                                 | 23                                                                              | 19.2 | 0.0799 | 1.62  |  |  |
| 50.8                       | 93.264  | 50.013 | 53.188 | 153000                 | 0.3 | 2                      | 3              | 22800           | 13200                      | 39700              | 1.73                   | 375D   | 374         | 0.8                                       | 57                                   | 1.3                                         | 85                                   | 37.6                                                                            | 15.4 | 0.0816 | 1.4   |  |  |
| 2                          | 3.6718  | 1.969  | 2.094  | 34400                  | 0.3 | 2                      | 3              | 5120            | 2970                       | 8920               | 1.73                   | 375D   | 374         | 0.03                                      | 2.24                                 | 0.05                                        | 3.35                                 | 37.6                                                                            | 15.4 | 0.0816 | 3.09  |  |  |
| 50.8                       | 96.838  | 53.188 | 53.188 | 153000                 | 0.3 | 2                      | 3              | 22800           | 13200                      | 39700              | 1.73                   | 375D   | 372A        | 0.8                                       | 57                                   | 1.5                                         | 86                                   | 37.6                                                                            | 15.4 | 0.0816 | 1.61  |  |  |
| 2                          | 3.8125  | 2.094  | 2.094  | 34400                  | 0.3 | 2                      | 3              | 5120            | 2970                       | 8920               | 1.73                   | 375D   | 372A        | 0.03                                      | 2.24                                 | 0.06                                        | 3.39                                 | 37.6                                                                            | 15.4 | 0.0816 | 3.56  |  |  |
| 55.562                     | 96.838  | 51.298 | 53.188 | 158000                 | 0.4 | 1.9                    | 2.8            | 23600           | 14300                      | 41100              | 1.65                   | 389DE  | 382A        | 0.8                                       | 63                                   | 0.8                                         | 89                                   | 42                                                                              | 15.7 | 0.0859 | 2.05  |  |  |
| 2.1875                     | 3.8125  | 2.0196 | 2.094  | 35600                  | 0.4 | 1.9                    | 2.8            | 5300            | 3210                       | 9230               | 1.65                   | 389DE  | 382A        | 0.03                                      | 2.48                                 | 0.03                                        | 3.5                                  | 42                                                                              | 15.7 | 0.0859 | 4.5   |  |  |
| 63.5                       | 112.712 | 60.325 | 60.325 | 291000                 | 0.3 | 2                      | 3              | 43300           | 25100                      | 75400              | 1.72                   | 39585D | 39520       | 0.8                                       | 72                                   | 3.3                                         | 101                                  | 84.3                                                                            | 23.7 | 0.1074 | 2.59  |  |  |
| 2.5                        | 4.4375  | 2.375  | 2.375  | 65300                  | 0.3 | 2                      | 3              | 9730            | 5650                       | 16900              | 1.72                   | 39585D | 39520       | 0.03                                      | 2.83                                 | 0.13                                        | 3.98                                 | 84.3                                                                            | 23.7 | 0.1074 | 5.7   |  |  |
| 63.5                       | 136.525 | 66.091 | 65.989 | 298000                 | 0.9 | 0.8                    | 1.2            | 44300           | 65700                      | 77200              | 0.67                   | 78251D | 78537       | 2.3                                       | 79                                   | 3.3                                         | 115                                  | 62.6                                                                            | 19.1 | 0.0884 | 4.59  |  |  |
| 2.5                        | 5.375   | 2.602  | 2.598  | 66900                  | 0.9 | 0.8                    | 1.2            | 9970            | 14800                      | 17400              | 0.67                   | 78251D | 78537       | 0.09                                      | 3.11                                 | 0.13                                        | 4.53                                 | 62.6                                                                            | 19.1 | 0.0884 | 10.1  |  |  |
| 63.5                       | 140.03  | 66.09  | 65.989 | 298000                 | 0.9 | 0.8                    | 1.2            | 44300           | 65700                      | 77200              | 0.67                   | 78251D | 78551       | 2.3                                       | 79                                   | 2.3                                         | 117                                  | 62.6                                                                            | 19.1 | 0.0884 | 4.83  |  |  |
| 2.5                        | 5.513   | 2.602  | 2.598  | 66900                  | 0.9 | 0.8                    | 1.2            | 9970            | 14800                      | 17400              | 0.67                   | 78251D | 78551       | 0.09                                      | 3.11                                 | 0.09                                        | 4.61                                 | 62.6                                                                            | 19.1 | 0.0884 | 10.66 |  |  |
| 64.987                     | 136.525 | 66.091 | 65.989 | 298000                 | 0.9 | 0.8                    | 1.2            | 44300           | 65700                      | 77200              | 0.67                   | 78255D | 78537       | 1.5                                       | 79                                   | 3.3                                         | 115                                  | 62.6                                                                            | 19.1 | 0.0884 | 4.55  |  |  |
| 2.5586                     | 5.375   | 2.602  | 2.598  | 66900                  | 0.9 | 0.8                    | 1.2            | 9970            | 14800                      | 17400              | 0.67                   | 78255D | 78537       | 0.06                                      | 3.11                                 | 0.13                                        | 4.53                                 | 62.6                                                                            | 19.1 | 0.0884 | 10.03 |  |  |
| 64.987                     | 140.03  | 66.091 | 65.989 | 298000                 | 0.9 | 0.8                    | 1.2            | 44300           | 65700                      | 77200              | 0.67                   | 78255D | 78551       | 1.5                                       | 79                                   | 2.3                                         | 117                                  | 62.6                                                                            | 19.1 | 0.0884 | 4.91  |  |  |
| 2.5586                     | 5.513   | 2.602  | 2.598  | 66900                  | 0.9 | 0.8                    | 1.2            | 9970            | 14800                      | 17400              | 0.67                   | 78255D | 78551       | 0.06                                      | 3.11                                 | 0.09                                        | 4.61                                 | 62.6                                                                            | 19.1 | 0.0884 | 10.85 |  |  |
| 80.962                     | 133.35  | 60.325 | 59.538 | 269000                 | 0.4 | 1.5                    | 2.3            | 40000           | 30500                      | 69700              | 1.31                   | 496D   | 492A        | 1.5                                       | 91                                   | 3.3                                         | 120                                  | 104.6                                                                           | 29.3 | 0.1252 | 3.25  |  |  |
| 3.1875                     | 5.25    | 2.375  | 2.344  | 60500                  | 0.4 | 1.5                    | 2.3            | 9000            | 6850                       | 15700              | 1.31                   | 496D   | 492A        | 0.06                                      | 3.58                                 | 0.13                                        | 4.72                                 | 104.6                                                                           | 29.3 | 0.1252 | 7.16  |  |  |
| 80.962                     | 136.525 | 60.325 | 59.538 | 269000                 | 0.4 | 1.5                    | 2.3            | 40000           | 30500                      | 69700              | 1.31                   | 496D   | 493         | 1.5                                       | 91                                   | 3.3                                         | 122                                  | 104.6                                                                           | 29.3 | 0.1252 | 3.53  |  |  |
| 3.1875                     | 5.375   | 2.375  | 2.344  | 60500                  | 0.4 | 1.5                    | 2.3            | 9000            | 6850                       | 15700              | 1.31                   | 496D   | 493         | 0.06                                      | 3.58                                 | 0.13                                        | 4.8                                  | 104.6                                                                           | 29.3 | 0.1252 | 7.77  |  |  |
| 80.962                     | 139.992 | 80.962 | 80.134 | 360000                 | 0.4 | 1.7                    | 2.5            | 53600           | 37100                      | 93400              | 1.45                   | 581D   | 572         | 1.5                                       | 92                                   | 3.3                                         | 125                                  | 125.7                                                                           | 32   | 0.1295 | 5.31  |  |  |
| 3.1875                     | 5.5115  | 3.1875 | 3.1549 | 80900                  | 0.4 | 1.7                    | 2.5            | 12100           | 8330                       | 21000              | 1.45                   | 581D   | 572         | 0.06                                      | 3.62                                 | 0.13                                        | 4.92                                 | 125.7                                                                           | 32   | 0.1295 | 11.71 |  |  |