

**JVN** is a company specialized in manufacturing extra large bearings. The company has an experienced technical force including professor advanced engineers, advanced engineers and advanced technicians.

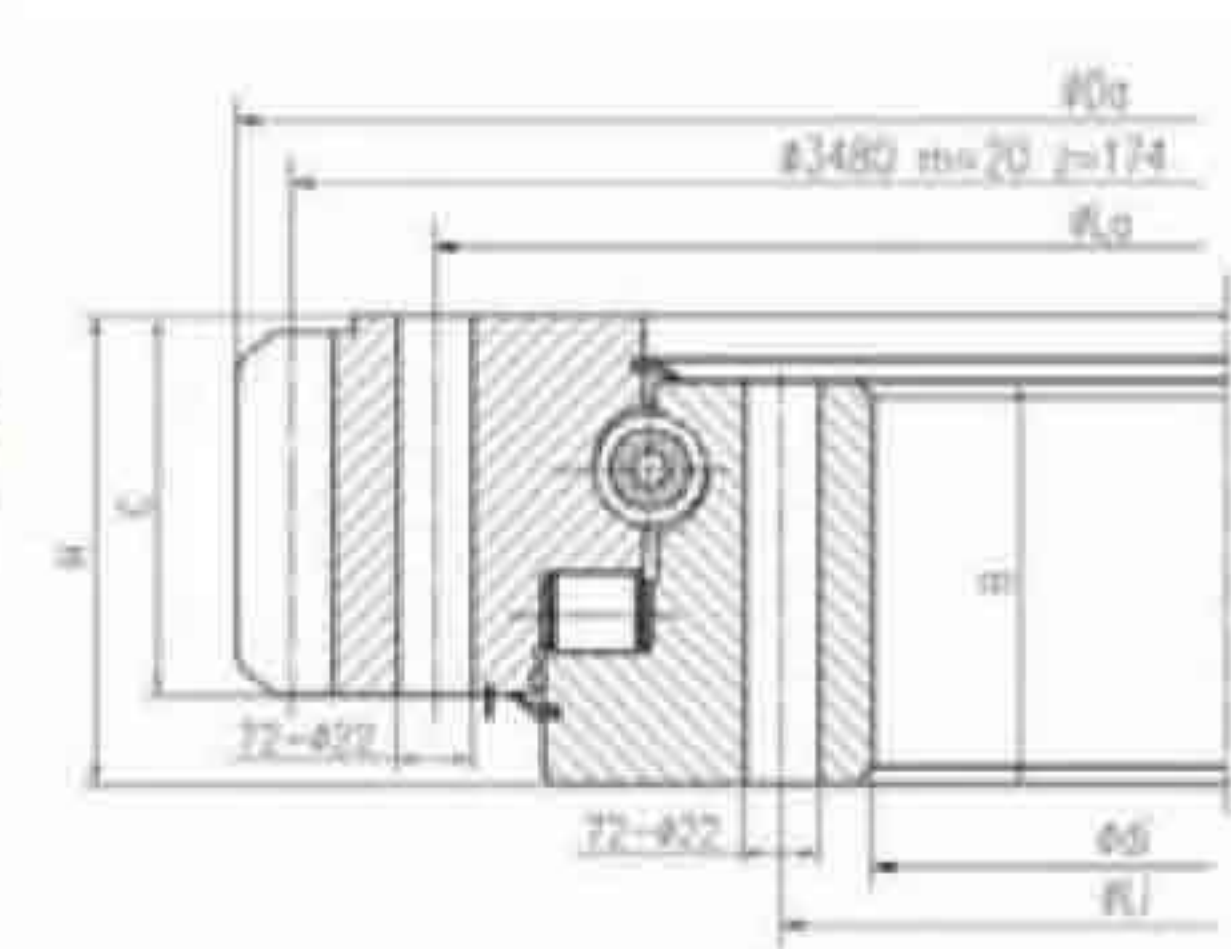
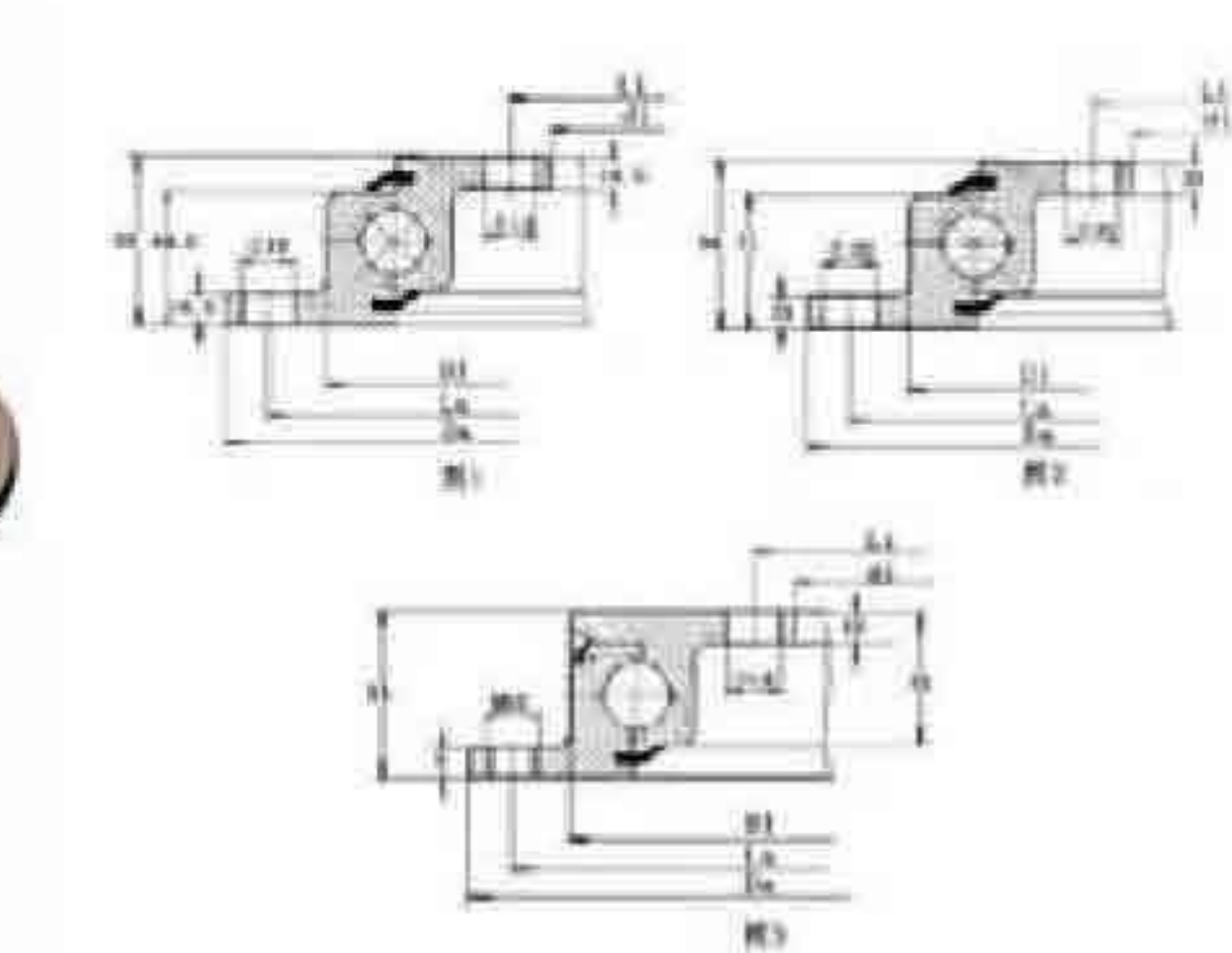
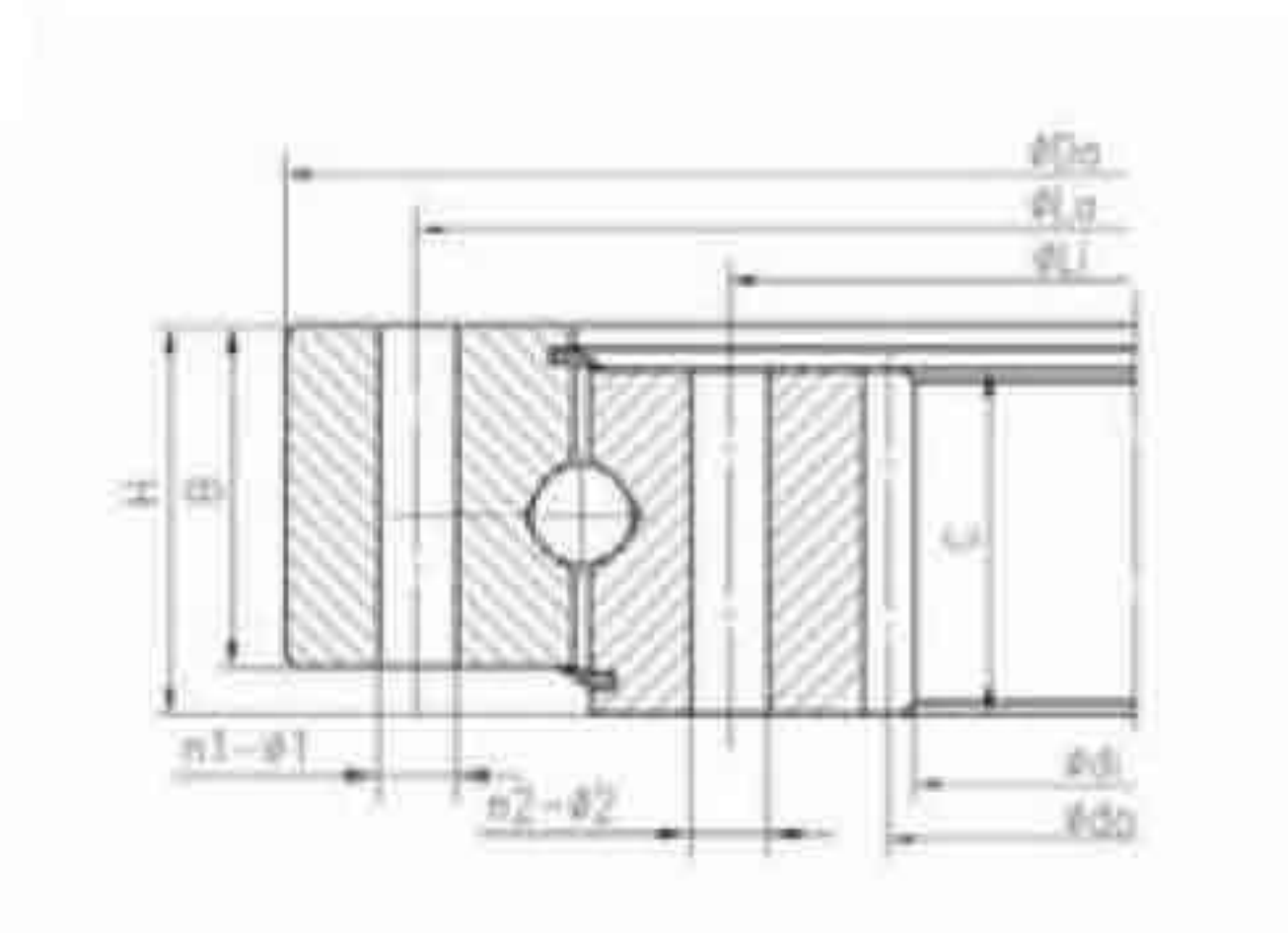
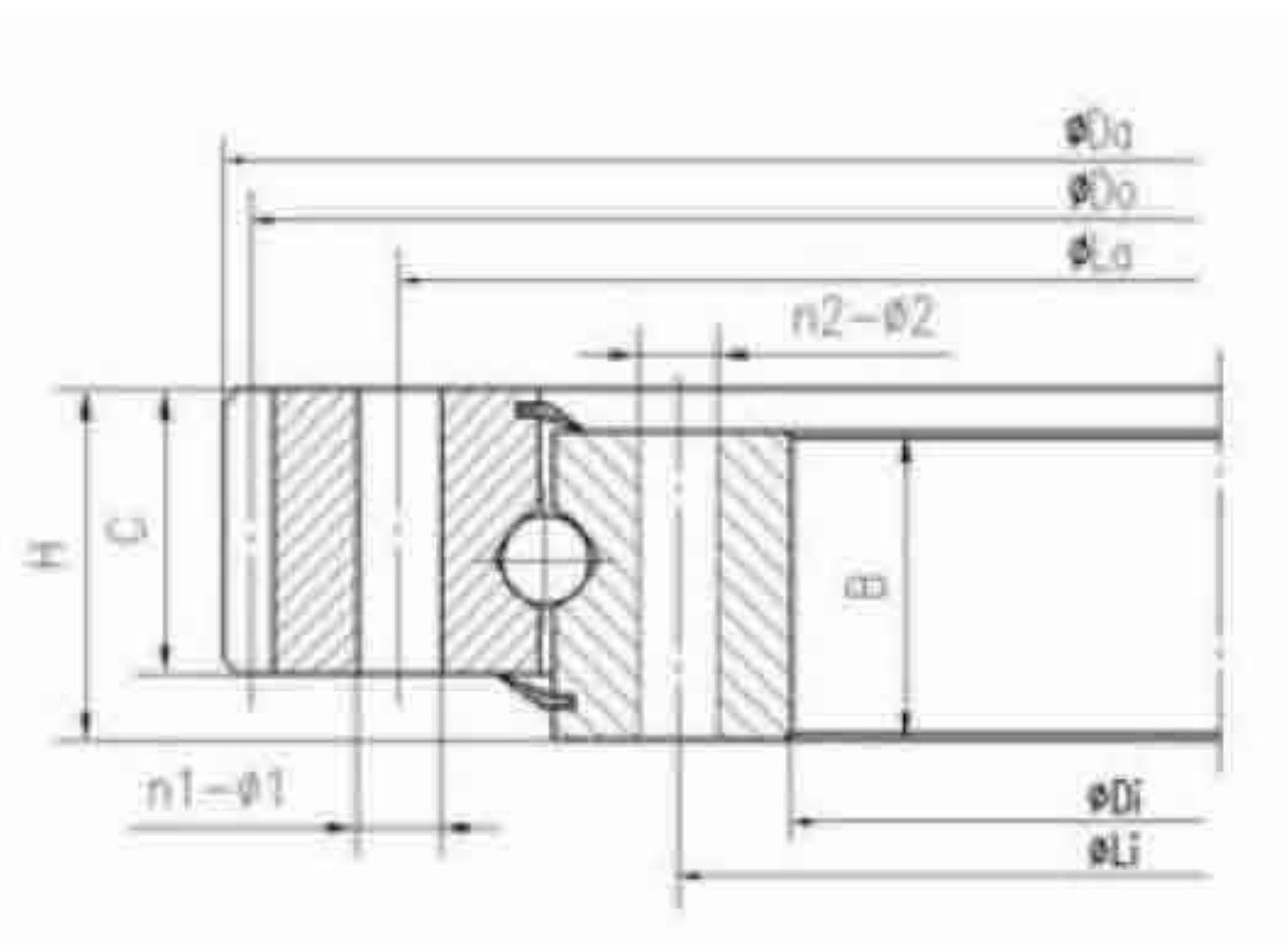
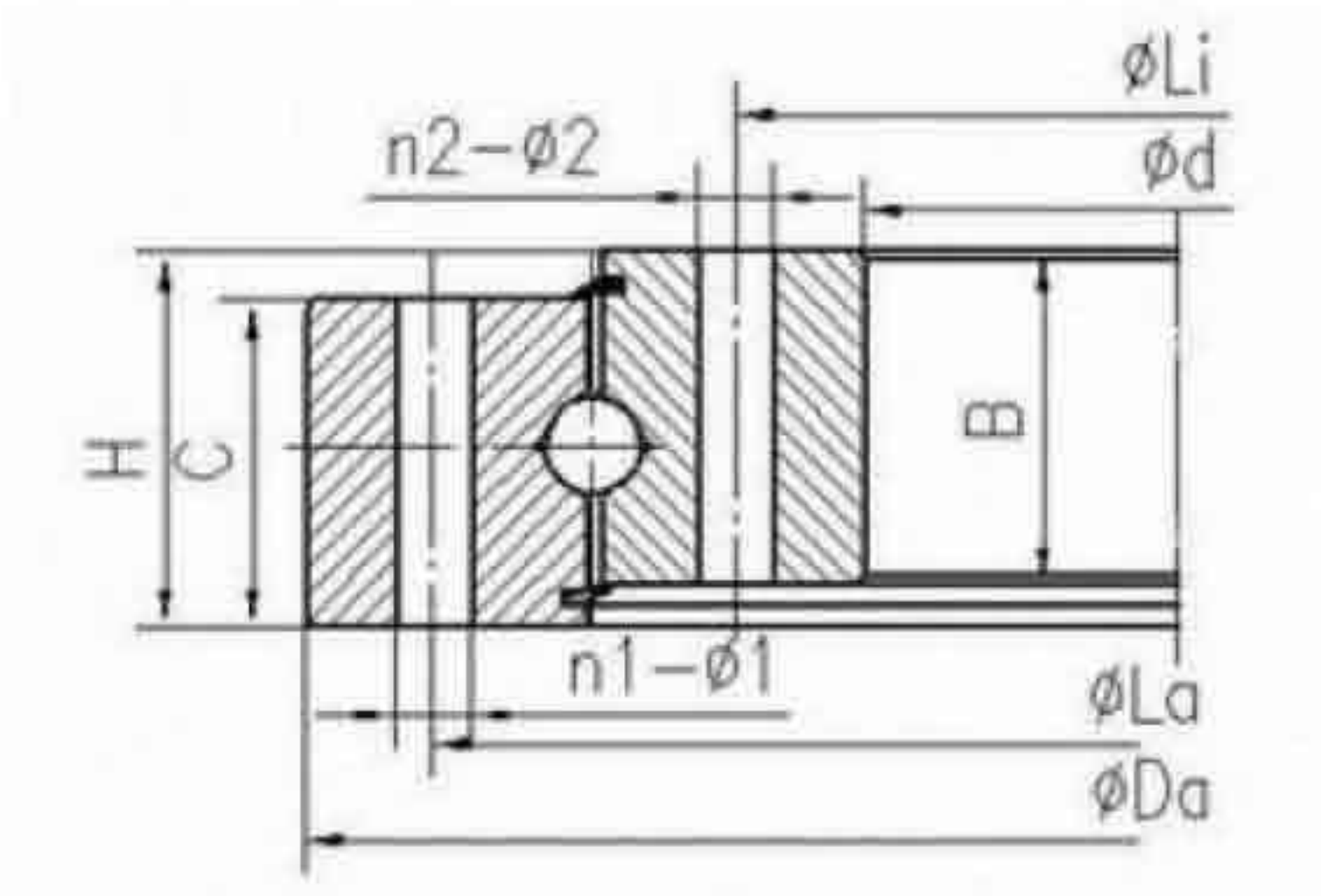
The company owns advanced producing facilities and checking means, owns the ability of designing, producing all kinds of bearings including the substitution import and nonstandard special construction bearings with the size from 300 to 5000mm. The check for the production, which has an even more strict standard than the national one, can guarantee that every set of bearings has a good quality that reaches or even surpass the national standard.

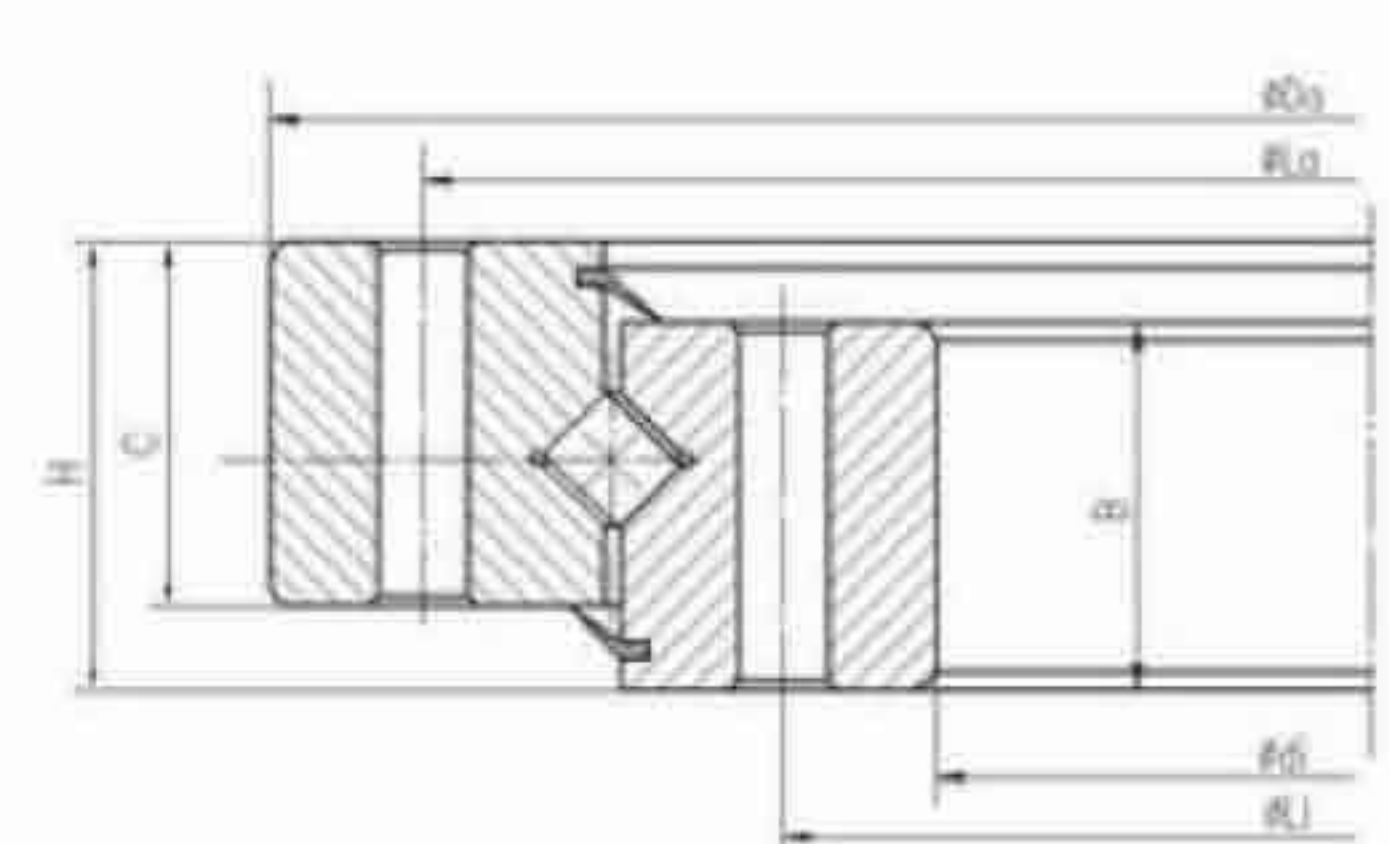
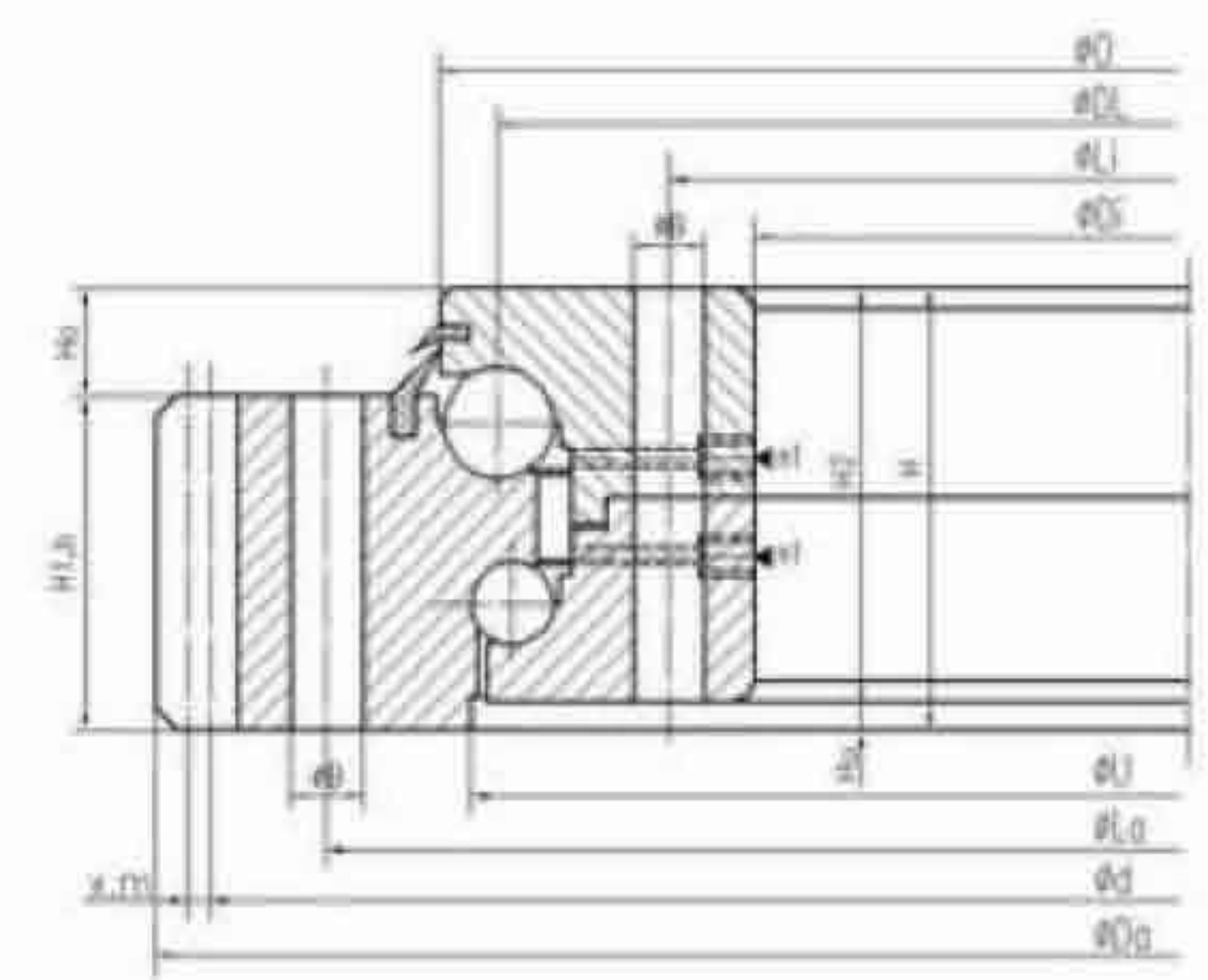
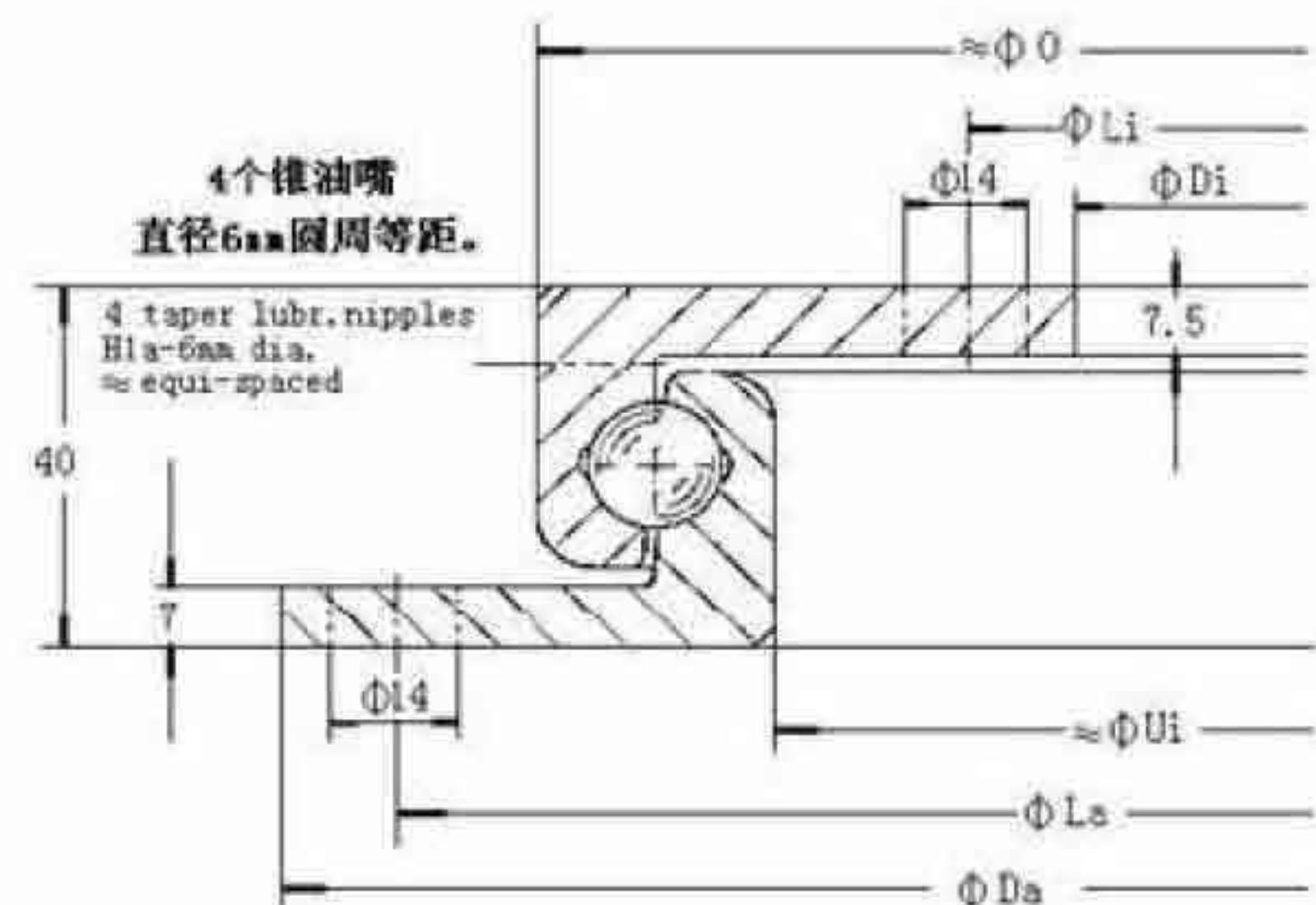
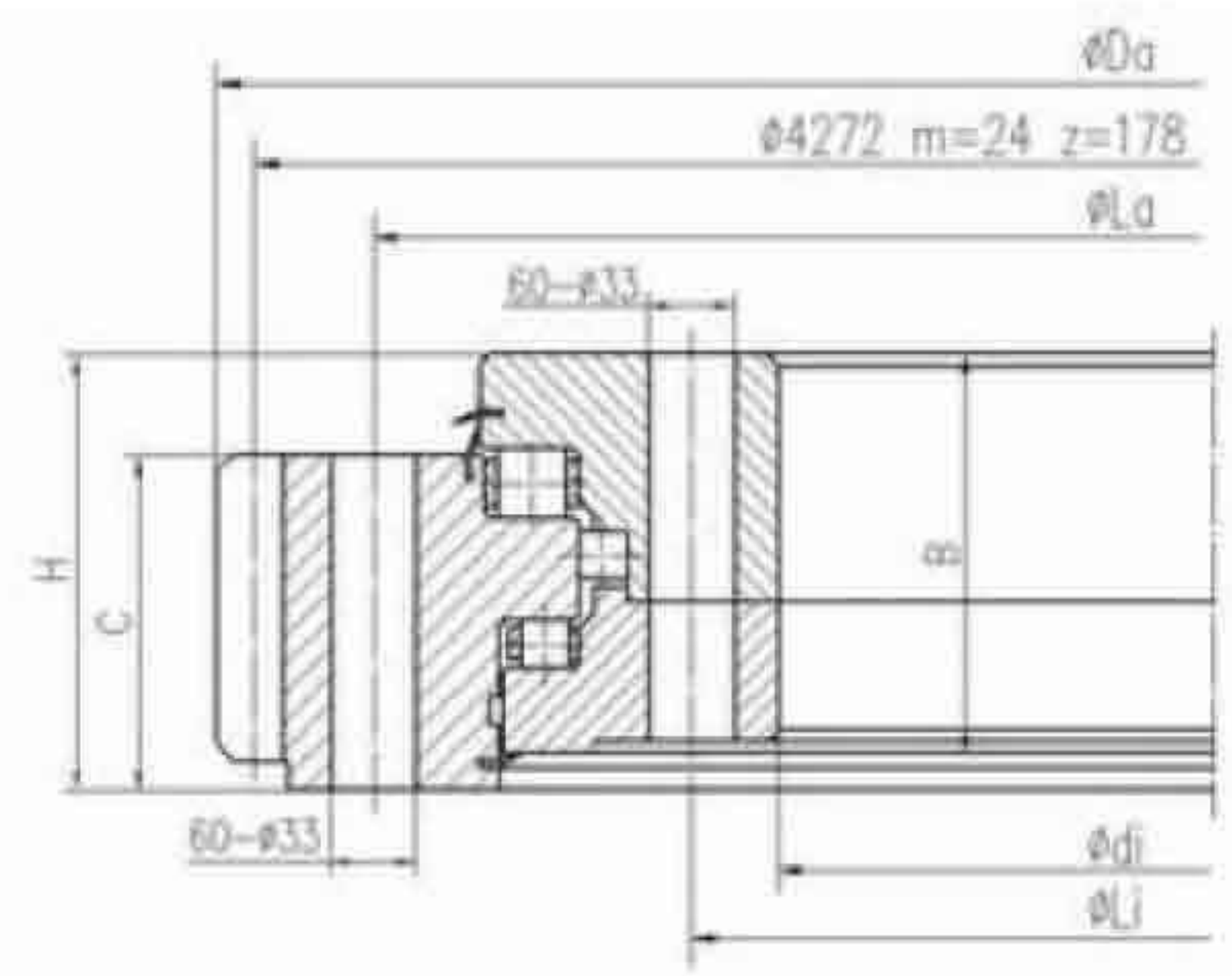
Our bearings were widely used in ranged of machines, metallurgy, electricity generation, architecture to national defence equipment and facilities for frontiers of science.

The company has the advanced management and all the producing processes are strictly controlled. The company has been awarded ISO9001:2000 (Certificate of China Quality System) and Certificate of Luoyang Products Quality Supervision Bureau.

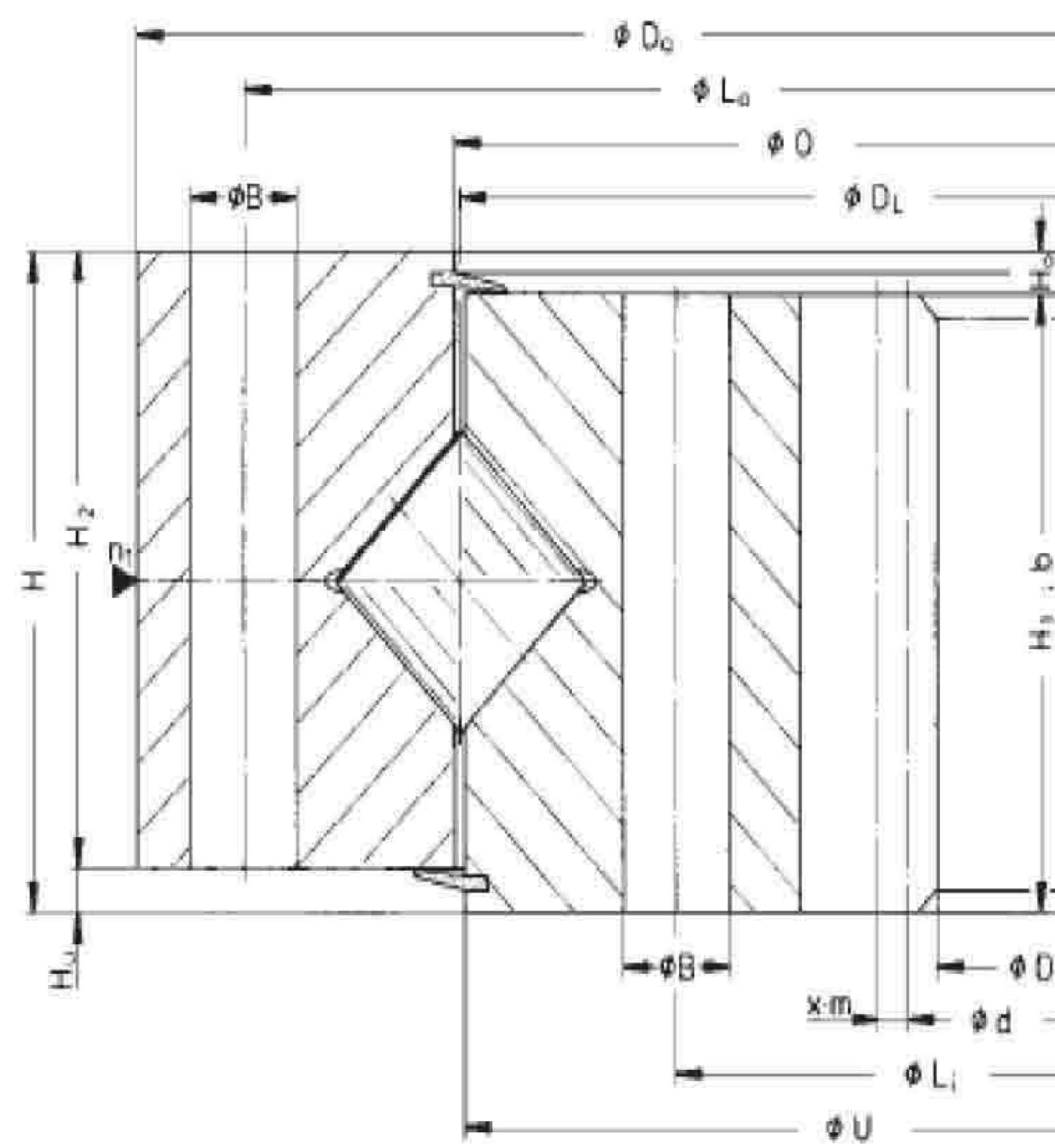
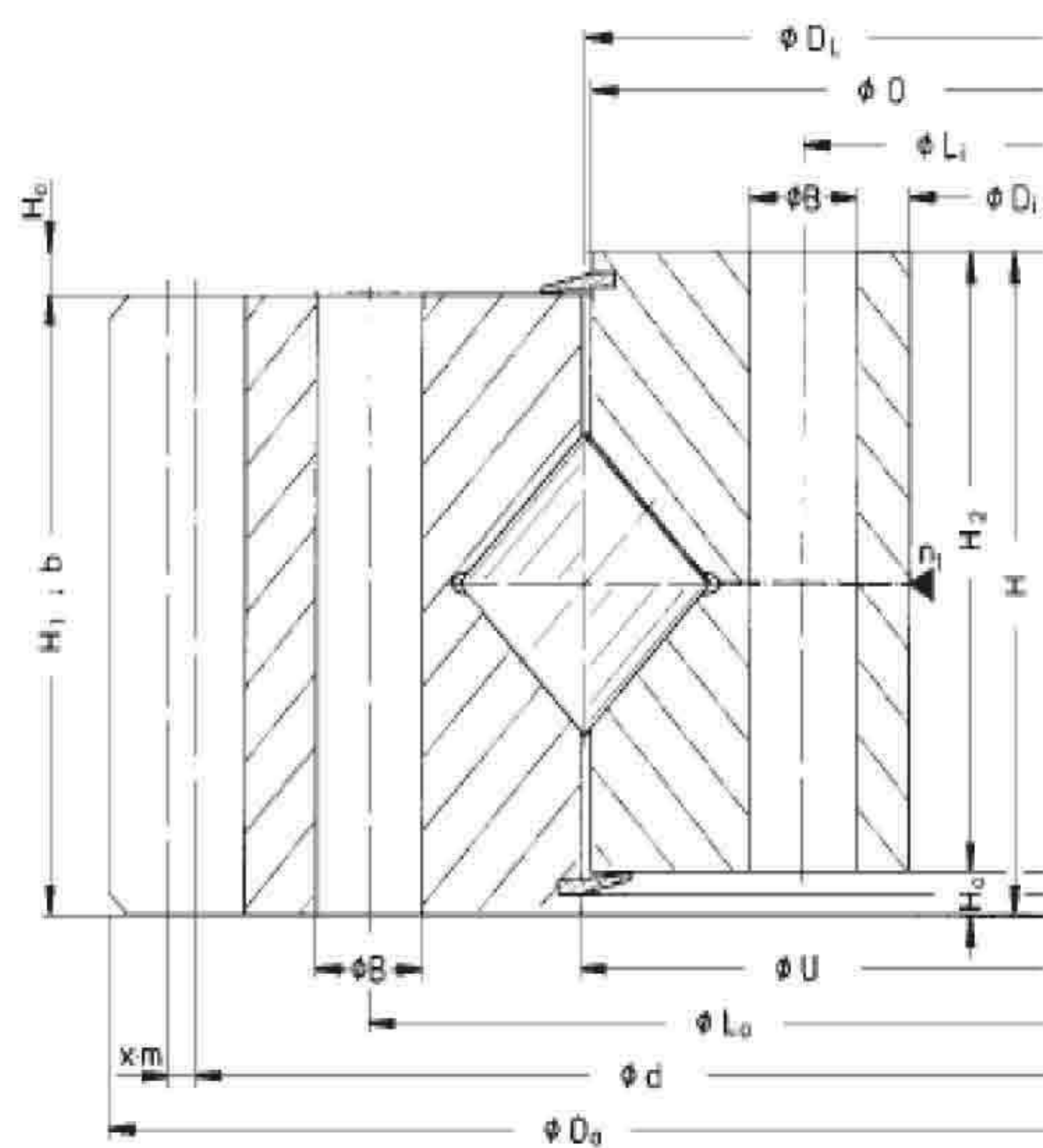
The company has the Advanced technology to make the good quality products for the customers. The company designed and produced hundreds of kinds advanced bearings such as bearings used in the Spiral CT Scanner bearings for radar bearings for road machines slewing bearings & separable bearings etc. With the development of the company, our bearings were exported to America, Australia, Europe, South East Asia. Our aim is: customers, quality, service is important and trying to producing the better and more products for the world.

Slewing ring bearing catalog





## Crossed Cylindrical Roller Slewing Bearings



## 1. External Gear Type

| Designations |                         | Boundary Dimension (mm) |     |    | Bolt Hole Diameter (mm) |     | Gear parameters (external gear type) |     | Permissible Tangential forces (KN) |         | Weight (Kg) |
|--------------|-------------------------|-------------------------|-----|----|-------------------------|-----|--------------------------------------|-----|------------------------------------|---------|-------------|
|              | <b>**ROTHE ERDE</b>     | Da                      | Di  | H  | La                      | Li  | m                                    | z   | normal                             | maximum |             |
| 31/495       | 161.16.0400.890.11.1503 | 495.2                   | 325 | 55 | 448                     | 352 | 4                                    | 121 | 11.5                               | 23.0    | 33          |
| 31/554       | 161.16.0450.890.11.1503 | 554                     | 369 | 55 | 500                     | 400 | 5                                    | 108 | 14.4                               | 28.8    | 41          |
| 31/664       | 161.16.0560.890.11.1503 | 664                     | 479 | 55 | 610                     | 510 | 5                                    | 130 | 14.4                               | 28.8    | 50          |
| 31/742       | 161.16.0630.890.11.1503 | 742.8                   | 543 | 55 | 682                     | 578 | 6                                    | 121 | 17.3                               | 34.6    | 61          |
| 31/562       | 161.20.0450.890.11.1503 | 562.8                   | 364 | 62 | 505                     | 395 | 6                                    | 91  | 19.9                               | 39.8    | 49          |
| 31/676       | 161.20.0560.890.11.1503 | 676.8                   | 474 | 62 | 615                     | 505 | 6                                    | 110 | 19.9                               | 39.8    | 62          |
| 31/758       | 161.20.0630.890.11.1503 | 758.4                   | 538 | 62 | 687                     | 573 | 8                                    | 92  | 26.6                               | 53.2    | 76          |
| 31/838       | 161.20.0710.890.11.1503 | 838.4                   | 618 | 62 | 767                     | 653 | 8                                    | 102 | 26.6                               | 53.2    | 85          |
| 31/892       | 161.25.0764.890.11.1503 | 892.8                   | 662 | 73 | 830                     | 698 | 6                                    | 146 | 24.1                               | 48.2    | 116         |

|         |                         |        |      |     |      |      |    |     |       |       |      |
|---------|-------------------------|--------|------|-----|------|------|----|-----|-------|-------|------|
| 31/1030 | 161.25.0886.890.11.1503 | 1030.4 | 784  | 73  | 952  | 820  | 8  | 126 | 32.1  | 64.2  | 144  |
| 31/1118 | 161.25.0980.890.11.1503 | 1118.4 | 878  | 73  | 1046 | 914  | 8  | 137 | 32.1  | 64.2  | 155  |
| 31/1228 | 161.25.1077.890.11.1503 | 1228   | 975  | 73  | 1143 | 1011 | 10 | 120 | 40.1  | 80.2  | 178  |
| 31/1278 | 161.25.1120.890.11.1503 | 1278   | 1008 | 73  | 1188 | 1052 | 10 | 125 | 40.1  | 80.2  | 195  |
| 31/1338 | 161.25.1180.890.11.1503 | 1338   | 1068 | 73  | 1248 | 1112 | 10 | 131 | 40.1  | 80.2  | 206  |
| 31/1408 | 161.25.1250.890.11.1503 | 1408   | 1138 | 73  | 1318 | 1182 | 10 | 138 | 40.1  | 80.2  | 216  |
| 31/1497 | 161.25.1320.890.11.1503 | 1497.6 | 1208 | 73  | 1388 | 1252 | 12 | 122 | 48.2  | 96.4  | 247  |
| 31/1593 | 161.28.1400.890.11.1503 | 1593.6 | 1266 | 80  | 1482 | 1318 | 12 | 130 | 53.5  | 107.0 | 332  |
| 31/1689 | 161.28.1500.890.11.1503 | 1689.6 | 1366 | 80  | 1582 | 1418 | 12 | 138 | 53.5  | 107.0 | 349  |
| 31/1803 | 161.28.1600.890.11.1503 | 1803.2 | 1466 | 80  | 1682 | 1518 | 14 | 126 | 62.4  | 124.8 | 388  |
| 31/1915 | 161.28.1700.890.11.1503 | 1915.2 | 1566 | 80  | 1782 | 1618 | 14 | 134 | 62.4  | 124.8 | 431  |
| 31/1943 | 161.36.1700.890.11.1503 | 1943.2 | 1529 | 100 | 1805 | 1595 | 14 | 136 | 79.1  | 158.2 | 653  |
| 31/2041 | 161.36.1800.890.11.1503 | 2041.2 | 1629 | 100 | 1905 | 1695 | 14 | 143 | 79.1  | 158.2 | 685  |
| 31/2139 | 161.36.1900.890.11.1503 | 2139.2 | 1729 | 100 | 2005 | 1795 | 14 | 150 | 79.1  | 158.2 | 721  |
| 31/2237 | 161.36.2000.890.11.1503 | 2237.2 | 1829 | 100 | 2105 | 1895 | 14 | 157 | 79.1  | 158.2 | 749  |
| 31/2252 | 161.40.2000.890.11.1503 | 2252.8 | 1824 | 108 | 2110 | 1890 | 16 | 138 | 98.4  | 196.8 | 848  |
| 31/2380 | 161.40.2128.890.11.1503 | 2380.8 | 1952 | 108 | 2238 | 2018 | 16 | 146 | 98.4  | 196.8 | 896  |
| 31/2492 | 161.40.2240.890.11.1503 | 2492.8 | 2064 | 108 | 2350 | 2130 | 16 | 153 | 98.4  | 196.8 | 946  |
| 31/2620 | 161.40.2368.890.11.1503 | 2620.8 | 2192 | 108 | 2478 | 2258 | 16 | 161 | 98.4  | 196.8 | 993  |
| 31/2516 | 161.45.2240.890.11.1503 | 2516.4 | 2057 | 119 | 2357 | 2123 | 18 | 137 | 123.2 | 246.4 | 1122 |
| 31/2642 | 161.45.2366.890.11.1503 | 2642.4 | 2183 | 119 | 2483 | 2249 | 18 | 144 | 123.2 | 246.4 | 1182 |
| 31/2786 | 161.45.2510.890.11.1503 | 2786.4 | 2327 | 119 | 2627 | 2393 | 18 | 152 | 123.2 | 246.4 | 1258 |
| 31/2930 | 161.45.2654.890.11.1503 | 2930.4 | 2471 | 119 | 2771 | 2537 | 18 | 160 | 123.2 | 246.4 | 1329 |

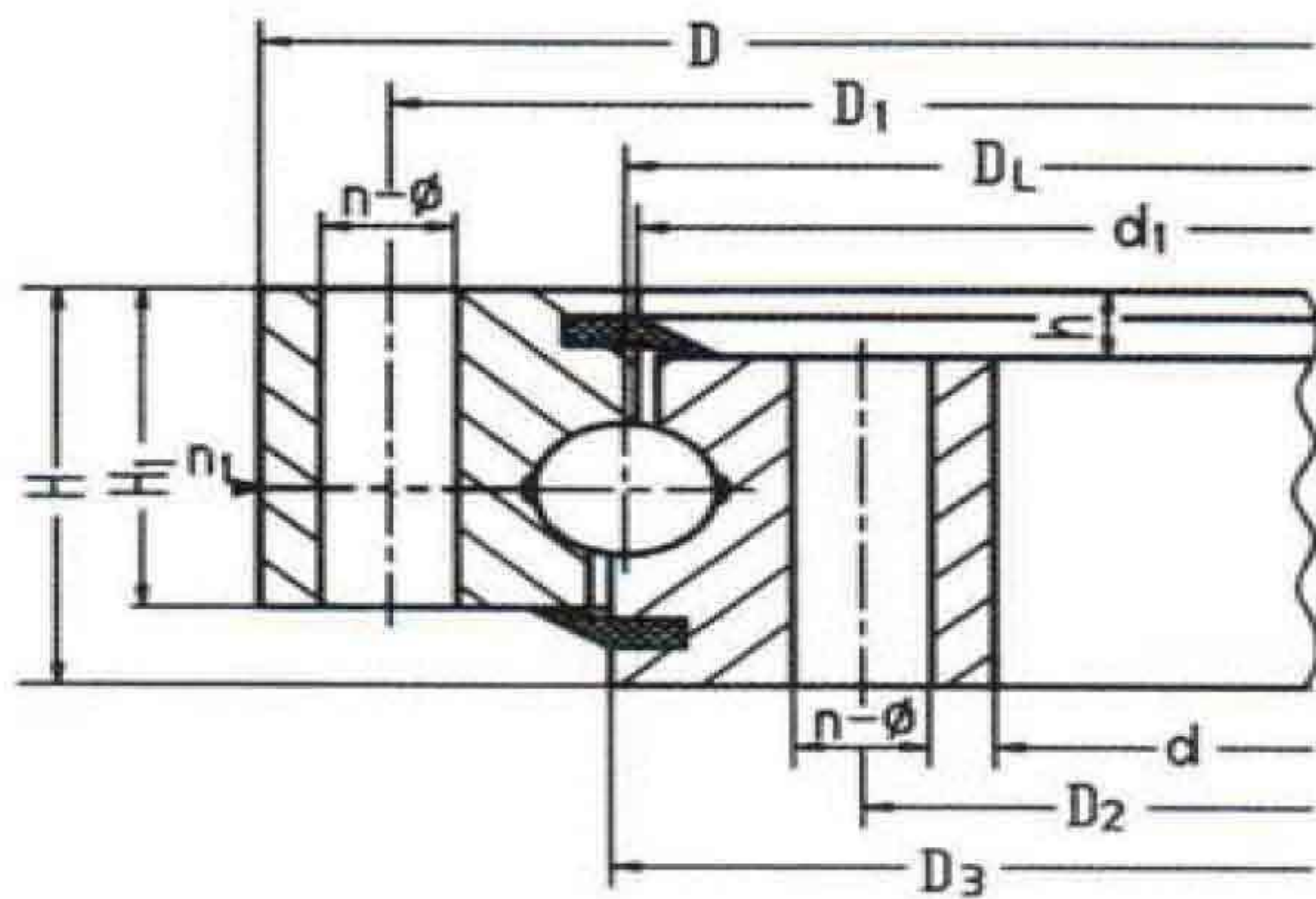
## 2. Internal Gear Type

| Designations |                         | Boundary Dimension (mm) |     |    | Bolt Hole Diameter (mm) |     | Gear parameters (internal gear type) |    | Permissible Tangential forces (KN) |      | Weight (Kg) |
|--------------|-------------------------|-------------------------|-----|----|-------------------------|-----|--------------------------------------|----|------------------------------------|------|-------------|
|              | **ROTHE ERDE            | Da                      | Di  | H  | La                      | Li  | m                                    | z  | normal                             | max  |             |
| 32/ 475      | 162.16.0400.890.11.1503 | 475                     | 304 | 55 | 448                     | 352 | 4                                    | 77 | 11.5                               | 23.0 | 31          |
| 32/531       | 162.16.0450.890.11.1503 | 531                     | 345 | 55 | 500                     | 400 | 5                                    | 70 | 14.4                               | 28.8 | 40          |
| 32/641       | 162.16.0560.890.11.1503 | 641                     | 455 | 55 | 610                     | 510 | 5                                    | 92 | 14.4                               | 28.8 | 49          |

|         |                         |      |      |     |      |      |    |     |       |       |      |
|---------|-------------------------|------|------|-----|------|------|----|-----|-------|-------|------|
| 32/717  | 162.16.0630.890.11.1503 | 717  | 516  | 55  | 682  | 578  | 6  | 87  | 17.3  | 34.6  | 59   |
| 32/536  | 162.20.0450.890.11.1503 | 536  | 336  | 62  | 505  | 395  | 6  | 57  | 19.9  | 39.8  | 48   |
| 32/646  | 162.20.0560.890.11.1503 | 646  | 444  | 62  | 615  | 505  | 6  | 75  | 19.9  | 39.8  | 60   |
| 32/722  | 162.20.0630.890.11.1503 | 722  | 496  | 62  | 687  | 573  | 8  | 63  | 26.6  | 53.2  | 75   |
| 32/802  | 162.20.0710.890.11.1503 | 802  | 576  | 62  | 767  | 653  | 8  | 73  | 26.6  | 53.2  | 84   |
| 32/866  | 162.25.0764.890.11.1503 | 866  | 636  | 73  | 830  | 698  | 6  | 107 | 24.1  | 48.2  | 113  |
| 32/988  | 162.25.0886.890.11.1503 | 988  | 744  | 73  | 952  | 820  | 8  | 94  | 32.1  | 64.2  | 138  |
| 32/1082 | 162.25.0980.890.11.1503 | 1082 | 840  | 73  | 1046 | 914  | 8  | 106 | 32.1  | 64.2  | 152  |
| 32/1179 | 162.25.1077.890.11.1503 | 1179 | 920  | 73  | 1143 | 1011 | 10 | 93  | 40.1  | 80.2  | 177  |
| 32/1232 | 162.25.1120.890.11.1503 | 1232 | 960  | 73  | 1188 | 1052 | 10 | 97  | 40.1  | 80.2  | 192  |
| 32/1292 | 162.25.1180.890.11.1503 | 1292 | 1020 | 73  | 1248 | 1112 | 10 | 103 | 40.1  | 80.2  | 202  |
| 32/1362 | 162.25.1250.890.11.1503 | 1362 | 1090 | 73  | 1318 | 1182 | 10 | 110 | 40.1  | 80.2  | 213  |
| 32/1432 | 162.25.1320.890.11.1503 | 1432 | 1140 | 73  | 1388 | 1252 | 12 | 96  | 48.2  | 96.4  | 240  |
| 32/1534 | 162.28.1400.890.11.1503 | 1534 | 1200 | 80  | 1482 | 1318 | 12 | 101 | 53.5  | 107.0 | 330  |
| 32/1634 | 162.28.1500.890.11.1503 | 1634 | 1308 | 80  | 1582 | 1418 | 12 | 110 | 53.5  | 107.0 | 343  |
| 32/1734 | 162.28.1600.890.11.1503 | 1734 | 1386 | 80  | 1682 | 1518 | 14 | 100 | 62.4  | 124.8 | 391  |
| 32/1834 | 162.28.1700.890.11.1503 | 1834 | 1498 | 80  | 1782 | 1618 | 14 | 108 | 62.4  | 124.8 | 398  |
| 32/1871 | 162.36.1700.890.11.1503 | 1871 | 1456 | 100 | 1805 | 1595 | 14 | 105 | 79.1  | 158.2 | 636  |
| 32/1971 | 162.36.1800.890.11.1503 | 1971 | 1554 | 100 | 1905 | 1695 | 14 | 112 | 79.1  | 158.2 | 675  |
| 32/2071 | 162.36.1900.890.11.1503 | 2071 | 1652 | 100 | 2005 | 1795 | 14 | 119 | 79.1  | 158.2 | 720  |
| 32/2171 | 162.36.2000.890.11.1503 | 2171 | 1764 | 100 | 2105 | 1895 | 14 | 127 | 79.1  | 158.2 | 731  |
| 32/2176 | 162.40.2000.890.11.1503 | 2176 | 1744 | 108 | 2110 | 1890 | 16 | 138 | 98.4  | 196.8 | 832  |
| 32/2304 | 162.40.2128.890.11.1503 | 2304 | 1872 | 108 | 2238 | 2018 | 16 | 146 | 98.4  | 196.8 | 882  |
| 32/2416 | 162.40.2240.890.11.1503 | 2416 | 1984 | 108 | 2350 | 2130 | 16 | 153 | 98.4  | 196.8 | 932  |
| 32/2544 | 162.40.2368.890.11.1503 | 2544 | 2112 | 108 | 2478 | 2258 | 16 | 161 | 98.4  | 196.8 | 980  |
| 32/2423 | 162.45.2240.890.11.1503 | 2423 | 1962 | 119 | 2357 | 2123 | 18 | 110 | 123.2 | 246.4 | 1100 |
| 32/2549 | 162.45.2366.890.11.1503 | 2549 | 2088 | 119 | 2483 | 2249 | 18 | 117 | 123.2 | 246.4 | 1160 |
| 32/2693 | 162.45.2510.890.11.1503 | 2693 | 2232 | 119 | 2627 | 2393 | 18 | 125 | 123.2 | 246.4 | 1231 |
| 32/2837 | 162.45.2654.890.11.1503 | 2837 | 2376 | 119 | 2771 | 2537 | 18 | 133 | 123.2 | 246.4 | 1302 |

Single-row Four Point Contact Ball Type Slewing Bearing

(Non-gear type)

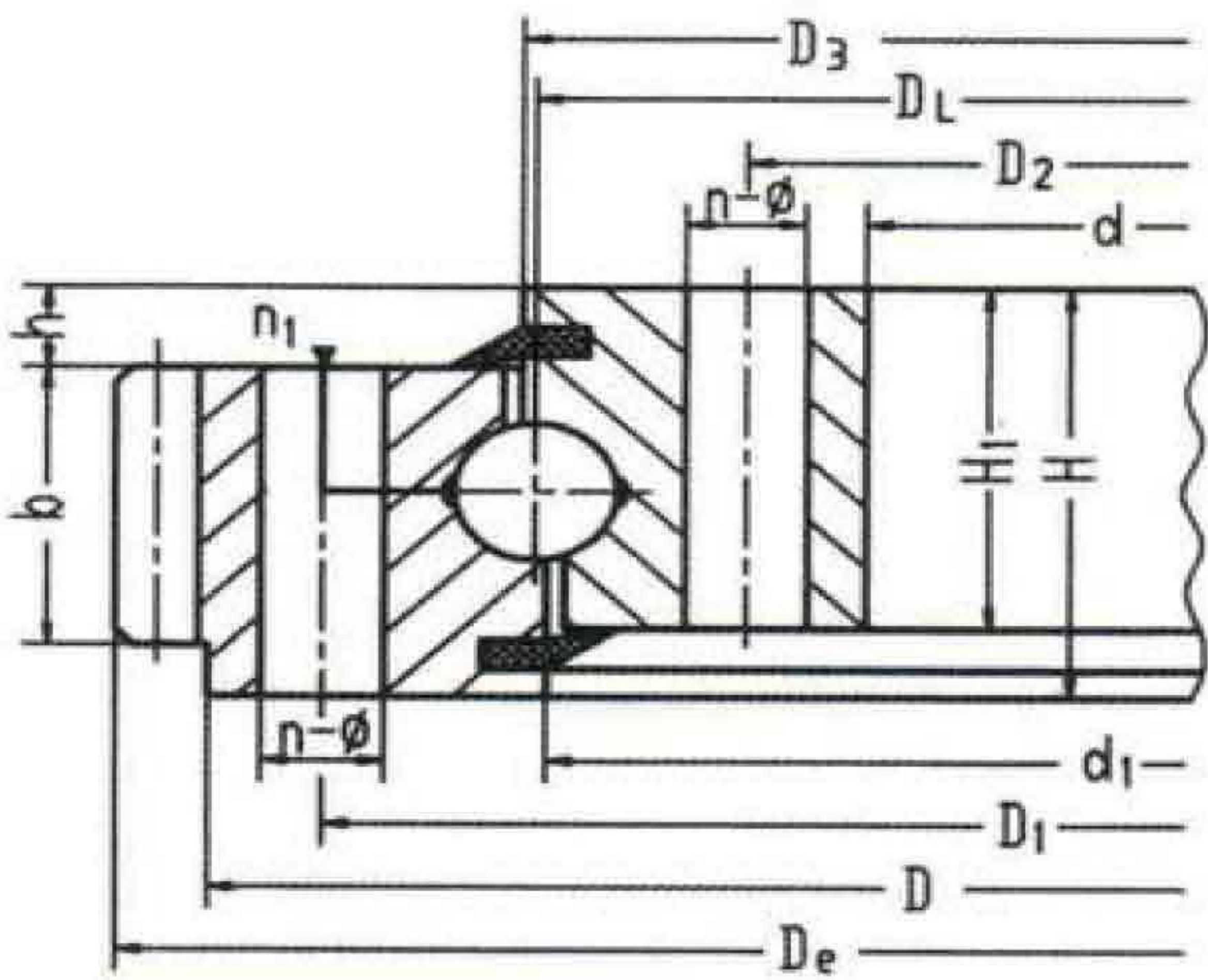


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| Boundary Dimension (mm) |     |     | Bolt hole Diameter (mm) |      |       |    |    |    | (non-gear type) Designations | Basic load ratings (KN) | Weight (Kg) |
|-------------------------|-----|-----|-------------------------|------|-------|----|----|----|------------------------------|-------------------------|-------------|
| D                       | d   | H   | D1                      | D2   | n1    | n2 | φ1 | φ2 | TOPROL                       |                         |             |
| 602                     | 398 | 80  | 566                     | 434  | 20    | 20 | 18 | 18 | 010.30.500                   | 1290                    | 75.8        |
| 662                     | 458 | 80  | 626                     | 494  | 20    | 20 | 18 | 18 | 010.30.560                   | 1440                    | 94          |
| 732                     | 528 | 80  | 696                     | 564  | 24    | 24 | 18 | 18 | 010.30.630                   | 1870                    | 110         |
| 812                     | 608 | 80  | 776                     | 644  | 24    | 24 | 18 | 18 | 010.30.710                   | 2120                    | 120         |
| 1098                    | 893 | 90  | 1060                    | 845  | 48/47 |    | 22 | 22 | 010.30.955.11                | 2700                    | 126         |
| 922                     | 678 | 100 | 878                     | 722  | 30    | 30 | 22 | 22 | 010.40.800                   | 3130                    | 256         |
| 1022                    | 778 | 100 | 978                     | 822  | 30    | 30 | 22 | 22 | 010.40.900                   | 3550                    | 240         |
| 1122                    | 878 | 100 | 1078                    | 922  | 36    | 36 | 22 | 22 | 010.40.100                   | 3940                    | 305         |
| 1242                    | 998 | 100 | 1198                    | 1042 | 36    | 36 | 22 | 22 | 010.40.1120                  | 4430                    | 300         |

|      |      |     |      |      |    |    |    |    |             |       |      |
|------|------|-----|------|------|----|----|----|----|-------------|-------|------|
| 1390 | 1110 | 110 | 1337 | 1163 | 40 | 40 | 26 | 26 | 010.45.1250 | 5540  | 420  |
| 1540 | 1260 | 110 | 1487 | 1313 | 40 | 40 | 26 | 26 | 010.45.1400 | 6170  | 480  |
| 1740 | 1460 | 110 | 1687 | 1513 | 45 | 45 | 26 | 26 | 010.45.1600 | 7020  | 550  |
| 1940 | 1660 | 110 | 1887 | 1713 | 45 | 45 | 26 | 26 | 010.40.1800 | 7930  | 610  |
| 2178 | 1825 | 144 | 2110 | 1891 | 48 | 48 | 33 | 33 | 010.60.2000 | 12100 | 1100 |
| 2418 | 2065 | 144 | 2350 | 2131 | 48 | 48 | 33 | 33 | 010.60.2240 | 13500 | 1250 |
| 2678 | 2325 | 144 | 2610 | 2391 | 56 | 56 | 33 | 33 | 010.60.2500 | 15000 | 1400 |
| 2978 | 2625 | 144 | 2910 | 2691 | 56 | 56 | 33 | 33 | 010.60.2800 | 16800 | 1600 |
| 3376 | 2922 | 174 | 3286 | 3014 | 56 | 56 | 45 | 45 | 010.75.3150 | 23800 | 2800 |
| 3776 | 3322 | 174 | 3686 | 3414 | 56 | 56 | 45 | 45 | 010.75.3550 | 26900 | 3200 |
| 4226 | 3772 | 174 | 4136 | 3864 | 60 | 60 | 45 | 45 | 010.75.4000 | 30200 | 3600 |
| 4726 | 4272 | 174 | 4636 | 4364 | 60 | 60 | 45 | 45 | 010.75.4500 | 34100 | 4000 |
| 480  | 260  | 60  | 444  | 296  | 16 | 16 | 14 | 14 | 116752      | 750.4 | 55   |
| 590  | 460  | 45  | 570  | 488  | 8  | 12 | 10 | 10 | 176792      | 620.6 | 35.9 |
| 590  | 460  | 45  | 570  | 488  | 12 | 8  | 10 | 10 | 176792K2M   | 940.4 | 30.8 |
| 780  | 530  | 60  | 740  | 560  | 20 | 20 | 17 | 13 | 1167/530    | 1120  | 103  |
| 720  | 560  | 36  | 690  | 590  | 12 | 32 | 12 | 16 | 1167/560K   | 700.8 | 39.2 |
| 950  | 760  | 80  | 915  | 795  | 24 | 24 | 18 | 16 | E787/760G2  | 203   | 138  |
| 1050 | 800  | 90  | 1012 | 838  | 30 | 30 | 20 | 20 | 787/800     | 2150  | 192  |
| 1120 | 850  | 85  | 1074 | 924  | 12 | 12 | 20 | 22 | 71769/850Y  | 1510  | 248  |
| 1200 | 932  | 120 | 1148 | 984  | 40 | 40 | 26 | 24 | 787/932G2   | 3490  | 328  |
| 1165 | 960  | 90  | 1135 | 1040 | 36 | 36 | 18 | 16 | 787/960G2   | 2490  | 202  |
| 1509 | 1260 | 90  | 1465 | 1315 | 36 | 36 | 22 | 20 | 787/1260G2  | 3780  | 274  |
| 1820 | 1400 | 136 | 1750 | 1470 | 24 | 24 | 35 | 35 | 71169/1400Y | 6110  | 1114 |
| 1780 | 1440 | 100 | 1730 | 1494 | 48 | 48 | 22 | 20 | 787/1440G2  | 5030  | 533  |
| 1927 | 1628 | 130 | 1875 | 1680 | 36 | 36 | 26 | 24 | 787/1628G2  | 6920  | 732  |
| 2000 | 1700 | 150 | 1950 | 1750 | 24 | 24 | 21 | 21 | 78//1700KM  | 6840  | 826  |

# Single-row Four Point Contact Ball Type Slewing Bearing (External gear type)



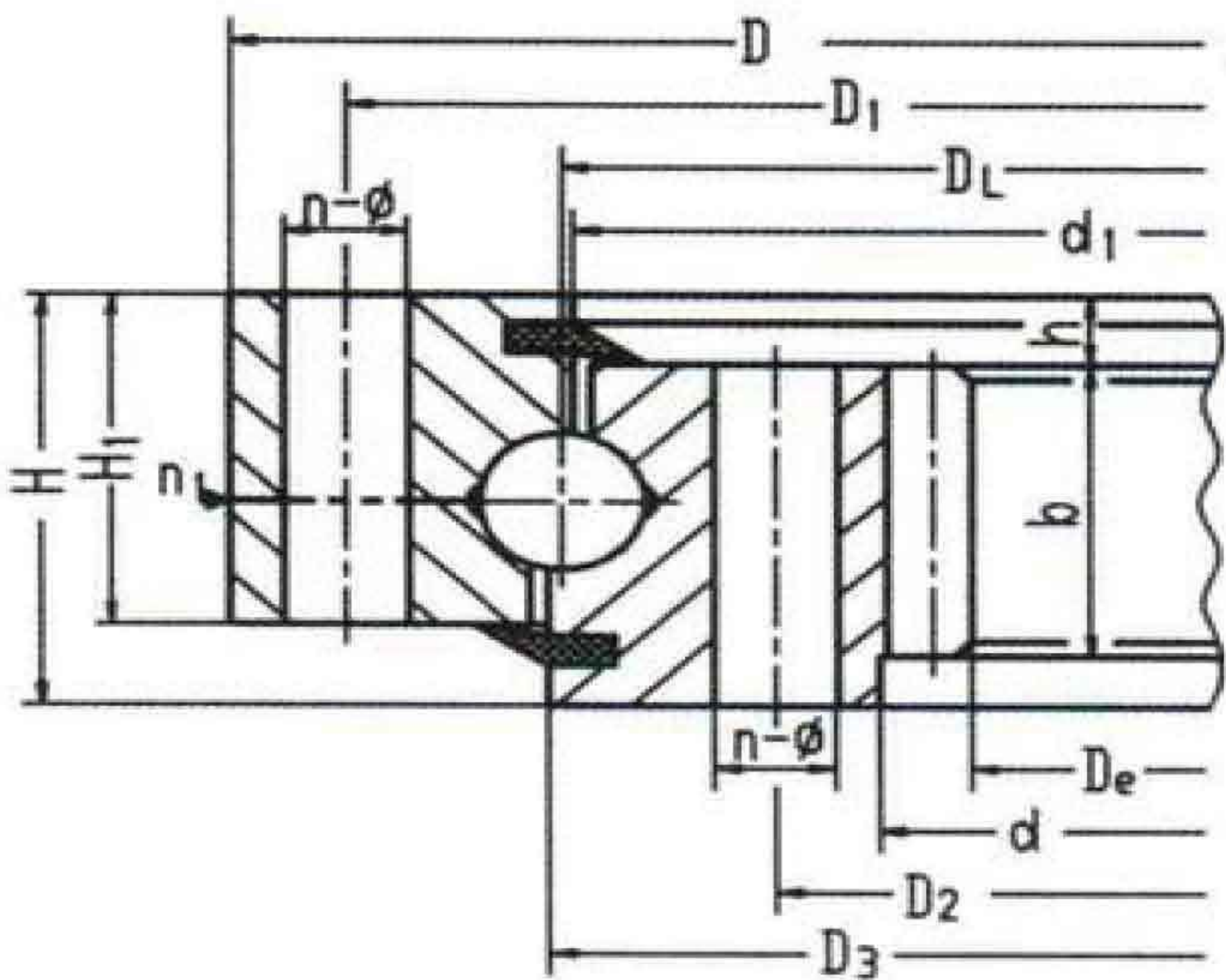
011,012

| Boundary Dimension (mm) |     |    | Bolt hole Diameter (mm) |     |    |    | Gear Parameters |     |     | (External gear type) Designations | Basic Load Ratings (KN) | Weight (Kg) |
|-------------------------|-----|----|-------------------------|-----|----|----|-----------------|-----|-----|-----------------------------------|-------------------------|-------------|
| D                       | d   | H  | D1                      | D2  | n1 | n2 | m               | Da  | Z   | TOPROL                            |                         |             |
| 280                     | 120 | 55 | 248                     | 152 | 12 | 12 | 4               | 300 | 73  | 011.20.200                        | 550                     | 18          |
| 602                     | 398 | 80 | 566                     | 434 | 20 | 20 | 5/6             | 630 | 123 | 011.30.500                        | 1290                    | 75.8        |
| 602                     | 398 | 80 | 566                     | 434 | 20 | 20 | 6               | 630 | 102 | 012.30.500                        | 1290                    | 75.8        |
| 662                     | 458 | 80 | 626                     | 494 | 20 | 20 | 5               | 690 | 135 | 011.30.560                        | 1440                    | 94          |

|      |      |     |      |      |    |    |    |      |     |                 |       |      |
|------|------|-----|------|------|----|----|----|------|-----|-----------------|-------|------|
| 662  | 458  | 80  | 626  | 494  | 20 | 20 | 6  | 690  | 112 | 012.30.560      | 1440  | 94   |
| 732  | 528  | 80  | 696  | 564  | 24 | 24 | 6  | 774  | 126 | 011.30.630      | 1870  | 110  |
| 732  | 528  | 80  | 696  | 564  | 24 | 24 | 8  | 776  | 94  | 012.30.630      | 1870  | 110  |
| 812  | 608  | 80  | 776  | 644  | 24 | 24 | 6  | 852  | 139 | 011.30.710      | 2120  | 120  |
| 812  | 608  | 80  | 776  | 644  | 24 | 24 | 8  | 856  | 104 | 012.30.710      | 2120  | 120  |
| 922  | 678  | 100 | 878  | 722  | 30 | 30 | 8  | 968  | 118 | 011.40.800      | 3130  | 256  |
| 922  | 678  | 100 | 878  | 722  | 30 | 30 | 10 | 970  | 94  | 012.40.800      | 3130  | 256  |
| 1022 | 778  | 100 | 978  | 822  | 30 | 30 | 8  | 1064 | 130 | 011.40.900      | 3550  | 240  |
| 1022 | 778  | 100 | 978  | 822  | 30 | 30 | 10 | 1070 | 104 | 012.40.900      | 3550  | 240  |
| 1122 | 878  | 100 | 1078 | 922  | 30 | 30 | 10 | 1190 | 116 | 011.40.1000.12  | 3940  | 305  |
| 1122 | 878  | 100 | 1078 | 922  | 36 | 36 | 12 | 1188 | 96  | 012.40.1000     | 3940  | 305  |
| 1242 | 998  | 100 | 1198 | 1045 | 36 | 36 | 10 | 1300 | 127 | 011.40.1120     | 4430  | 300  |
| 1242 | 998  | 100 | 1198 | 1042 | 36 | 36 | 12 | 1308 | 106 | 012.40.1120     | 4430  | 300  |
| 1242 | 998  | 100 | 1198 | 1042 | 18 | 18 | 10 | 1300 | 127 | 011.40.1120.12K | 3340  | 352  |
| 1242 | 998  | 100 | 1198 | 1042 | 36 | 36 | 10 | 1298 | 127 | 012.40.1120.12K | 3340  | 334  |
| 1390 | 1110 | 110 | 1337 | 1163 | 40 | 40 | 12 | 1452 | 118 | 011.45.1250     | 5540  | 420  |
| 1390 | 1110 | 110 | 1337 | 1163 | 40 | 40 | 14 | 1456 | 101 | 012.45.1250     | 5540  | 420  |
| 1540 | 1260 | 110 | 1487 | 1313 | 40 | 40 | 12 | 1608 | 131 | 011.45.1400     | 6170  | 480  |
| 1540 | 1260 | 110 | 1487 | 1313 | 40 | 40 | 14 | 1610 | 112 | 012.45.1400     | 6170  | 480  |
| 1740 | 1460 | 110 | 1687 | 1513 | 45 | 45 | 14 | 1820 | 127 | 011.45.1600     | 7020  | 550  |
| 1740 | 1460 | 110 | 1687 | 1513 | 45 | 45 | 16 | 1824 | 111 | 012.45.1600     | 7020  | 550  |
| 1940 | 1660 | 110 | 1887 | 1713 | 45 | 45 | 14 | 2016 | 141 | 011.45.1800     | 7930  | 610  |
| 1940 | 1660 | 110 | 1887 | 1713 | 45 | 45 | 16 | 2016 | 123 | 012.45.1800     | 7930  | 610  |
| 2178 | 1825 | 144 | 2110 | 1891 | 48 | 48 | 16 | 2272 | 139 | 011.60.2000     | 12100 | 1100 |
| 2178 | 1825 | 144 | 2110 | 1891 | 48 | 48 | 18 | 2268 | 123 | 012.60.2000     | 12100 | 1100 |
| 2418 | 2065 | 144 | 2350 | 2131 | 48 | 48 | 16 | 2496 | 153 | 011.60.2240     | 13500 | 1250 |
| 2418 | 2065 | 144 | 2350 | 2131 | 48 | 48 | 18 | 2502 | 136 | 012.60.2240     | 13500 | 1250 |

|      |      |     |      |      |    |    |    |      |     |             |       |      |
|------|------|-----|------|------|----|----|----|------|-----|-------------|-------|------|
| 2678 | 2325 | 144 | 2610 | 2391 | 56 | 56 | 18 | 2772 | 151 | 011.60.2500 | 15000 | 1400 |
| 2678 | 2325 | 144 | 2610 | 2391 | 56 | 56 | 20 | 2780 | 136 | 012.60.2500 | 15000 | 1400 |
| 2978 | 2625 | 144 | 2910 | 2691 | 56 | 56 | 18 | 3078 | 168 | 011.60.2800 | 16800 | 1600 |
| 2978 | 2625 | 144 | 2910 | 2691 | 56 | 56 | 20 | 3080 | 151 | 012.60.2800 | 16800 | 1600 |
| 3376 | 2922 | 174 | 3286 | 3014 | 56 | 56 | 20 | 3480 | 171 | 011.75.3150 | 23800 | 2800 |
| 3376 | 2922 | 174 | 3286 | 3014 | 56 | 56 | 22 | 3476 | 115 | 012.75.3150 | 23800 | 2800 |
| 3776 | 3322 | 174 | 3686 | 3414 | 56 | 56 | 20 | 3880 | 191 | 011.75.3350 | 26900 | 3200 |
| 3776 | 3322 | 174 | 3686 | 3414 | 56 | 56 | 22 | 3894 | 174 | 012.75.3550 | 26900 | 3200 |
| 4226 | 3772 | 174 | 4136 | 3864 | 60 | 60 | 22 | 4334 | 194 | 011.75.4000 | 30200 | 3600 |
| 4226 | 3772 | 174 | 4136 | 3864 | 60 | 60 | 25 | 4350 | 171 | 012.75.4000 | 30200 | 3600 |
| 4726 | 4272 | 174 | 4636 | 4364 | 60 | 60 | 22 | 4840 | 271 | 011.75.4500 | 34100 | 4000 |
| 4726 | 4272 | 174 | 4636 | 4364 | 60 | 60 | 25 | 4850 | 191 | 012.75.4500 | 34100 | 4000 |

Single-row Four Point Contact Ball Type Slewing Bearing  
(Internal gear type)

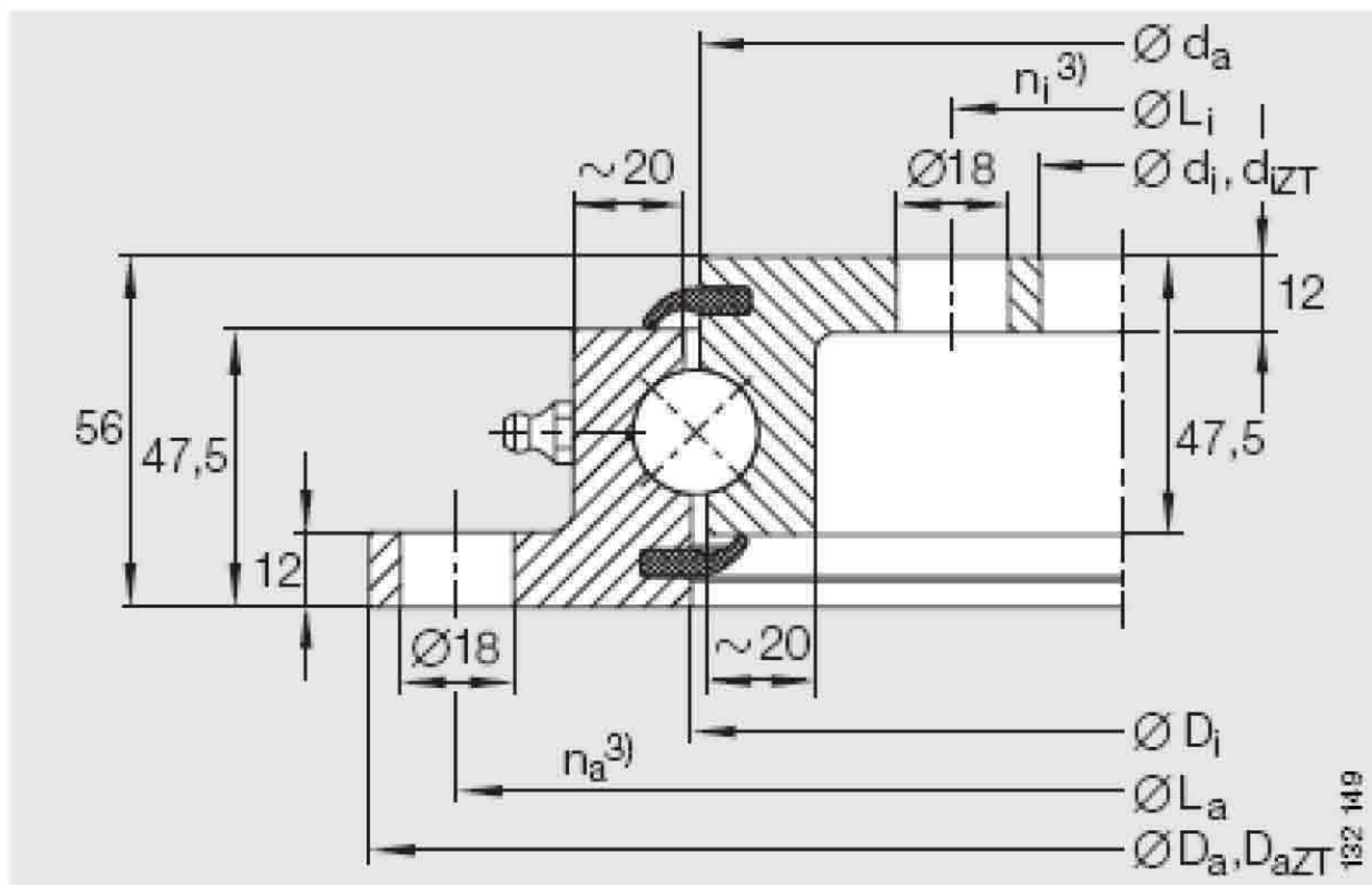


013,014

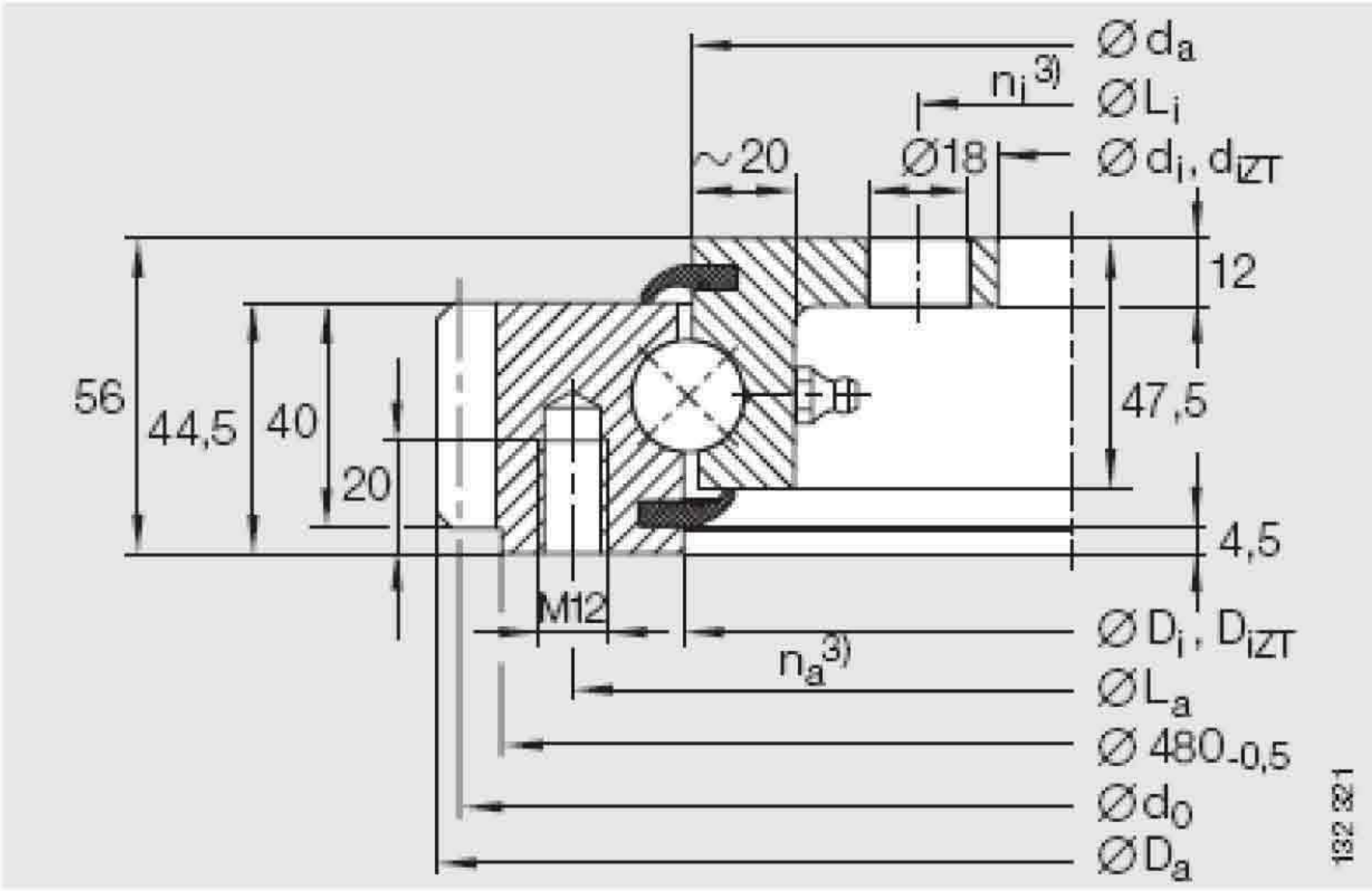
| Boundary<br>Dimension<br>(mm) |      |     | Bolt hole diameter<br>(mm) |      |    |    | Gear parameters   |         |     | Designations | Basic<br>load<br>ratings<br>(KN) | Weight<br>(Kg) |
|-------------------------------|------|-----|----------------------------|------|----|----|-------------------|---------|-----|--------------|----------------------------------|----------------|
| D                             | d    | H   | D1                         | D2   | n1 | φ  | m                 | Da      | Z   | TOPROL       |                                  |                |
| 602                           | 398  | 80  | 566                        | 434  | 20 | 18 | <sup>5</sup><br>6 | 365     | 74  | 013.30.500   | 1290                             | 75.8           |
| 602                           | 398  | 80  | 566                        | 434  | 20 | 18 | 6                 | 366     | 62  | 014.30.500   | 1290                             | 75.8           |
| 662                           | 458  | 80  | 626                        | 494  | 20 | 18 | 5                 | 425     | 86  | 013.30.560   | 1440                             | 94             |
| 662                           | 458  | 80  | 626                        | 494  | 20 | 18 | 6                 | 426.517 | 72  | 014.30.560   | 1440                             | 94             |
| 732                           | 528  | 80  | 696                        | 564  | 24 | 18 | 6                 | 492     | 83  | 013.30.630   | 1870                             | 110            |
| 732                           | 528  | 80  | 696                        | 564  | 24 | 18 | 8                 | 488     | 62  | 014.30.630   | 1870                             | 110            |
| 812                           | 608  | 80  | 776                        | 644  | 24 | 18 | 6                 | 570     | 86  | 013.30.710   | 2120                             | 120            |
| 812                           | 608  | 80  | 776                        | 644  | 24 | 18 | 8                 | 568     | 72  | 014.30.710   | 2120                             | 120            |
| 922                           | 678  | 100 | 878                        | 722  | 30 | 22 | 8                 | 632     | 80  | 013.40.800   | 3130                             | 256            |
| 922                           | 678  | 100 | 878                        | 722  | 30 | 22 | 10                | 630     | 64  | 014.40.800   | 3130                             | 256            |
| 1022                          | 778  | 100 | 978                        | 822  | 30 | 22 | 8                 | 736     | 93  | 013.40.900   | 3550                             | 240            |
| 1022                          | 778  | 100 | 978                        | 822  | 30 | 22 | 10                | 730     | 74  | 014.40.900   | 3550                             | 240            |
| 1122                          | 878  | 100 | 1078                       | 922  | 30 | 22 | 10                | 820     | 83  | 013.40.1000. | 3940                             | 305            |
| 1122                          | 878  | 100 | 1078                       | 922  | 36 | 22 | 12                | 816     | 69  | 014.40.1000  | 3940                             | 305            |
| 1242                          | 998  | 100 | 1198                       | 1045 | 36 | 22 | 10                | 940     | 95  | 013.40.1120  | 4430                             | 300            |
| 1242                          | 998  | 100 | 1198                       | 1042 | 36 | 22 | 12                | 936     | 79  | 014.40.1120  | 4430                             | 300            |
| 1390                          | 1110 | 110 | 1337                       | 1163 | 40 | 26 | 12                | 1044    | 88  | 013.45.1250  | 5540                             | 420            |
| 1390                          | 1110 | 110 | 1337                       | 1163 | 40 | 26 | 14                | 1036    | 75  | 014.45.1250  | 5540                             | 420            |
| 1540                          | 1260 | 110 | 1487                       | 1313 | 40 | 26 | 12                | 1188    | 100 | 013.45.1400  | 6170                             | 480            |
| 1540                          | 1260 | 110 | 1487                       | 1313 | 40 | 26 | 14                | 1190    | 86  | 014.45.1400  | 6170                             | 480            |
| 1740                          | 1460 | 110 | 1687                       | 1513 | 45 | 26 | 14                | 1386    | 100 | 013.45.1600  | 7020                             | 550            |

|      |      |     |      |      |    |    |    |      |     |             |       |      |
|------|------|-----|------|------|----|----|----|------|-----|-------------|-------|------|
| 1740 | 1460 | 110 | 1687 | 1513 | 45 | 26 | 16 | 1376 | 87  | 014.45.1600 | 7020  | 550  |
| 1940 | 1660 | 110 | 1887 | 1713 | 45 | 26 | 14 | 1568 | 113 | 013.45.1800 | 7930  | 610  |
| 1940 | 1660 | 110 | 1887 | 1713 | 45 | 26 | 16 | 1568 | 99  | 014.45.1800 | 7930  | 610  |
| 2178 | 1825 | 144 | 2110 | 1891 | 48 | 33 | 16 | 1728 | 109 | 013.60.2000 | 12100 | 1100 |
| 2178 | 1825 | 144 | 2110 | 1891 | 48 | 33 | 18 | 1728 | 97  | 014.60.2000 | 12100 | 1100 |
| 2418 | 2065 | 144 | 2350 | 2131 | 48 | 33 | 16 | 1984 | 125 | 013.60.2240 | 13500 | 1250 |
| 2418 | 2065 | 144 | 2350 | 2131 | 48 | 33 | 18 | 1980 | 111 | 014.60.2240 | 13500 | 1250 |
| 2678 | 2325 | 144 | 2610 | 2391 | 56 | 33 | 18 | 2232 | 125 | 013.60.2500 | 15000 | 1400 |
| 2678 | 2325 | 144 | 2610 | 2391 | 56 | 33 | 20 | 2220 | 112 | 014.60.2500 | 15000 | 1400 |
| 2978 | 2625 | 144 | 2910 | 2691 | 56 | 33 | 18 | 2520 | 141 | 013.60.2800 | 16800 | 1600 |
| 2978 | 2625 | 144 | 2910 | 2691 | 56 | 33 | 20 | 2520 | 127 | 014.60.2800 | 16800 | 1600 |
| 3376 | 2922 | 174 | 3286 | 3014 | 56 | 45 | 20 | 2820 | 142 | 013.75.3150 | 23800 | 2800 |
| 3376 | 2922 | 174 | 3286 | 3014 | 56 | 45 | 22 | 2826 | 129 | 014.75.3150 | 23800 | 2800 |
| 3776 | 3322 | 174 | 3686 | 3414 | 56 | 45 | 20 | 3220 | 162 | 013.75.3350 | 26900 | 3200 |
| 3776 | 3322 | 174 | 3686 | 3414 | 56 | 45 | 22 | 3212 | 147 | 014.75.3550 | 26900 | 3200 |
| 4226 | 3772 | 174 | 4136 | 3864 | 60 | 45 | 22 | 3652 | 167 | 013.75.4000 | 30200 | 3600 |
| 4226 | 3772 | 174 | 4136 | 3864 | 60 | 45 | 25 | 3650 | 147 | 014.75.4000 | 30200 | 3600 |
| 4726 | 4272 | 174 | 4636 | 4364 | 60 | 45 | 22 | 4158 | 190 | 013.75.4500 | 34100 | 4000 |
| 4726 | 4272 | 174 | 4636 | 4364 | 60 | 45 | 25 | 4150 | 167 | 014.75.4500 | 34100 | 4000 |

## Single-row Four Point Contact Ball Slewing Bearing with flange (Non- gear teeth type)

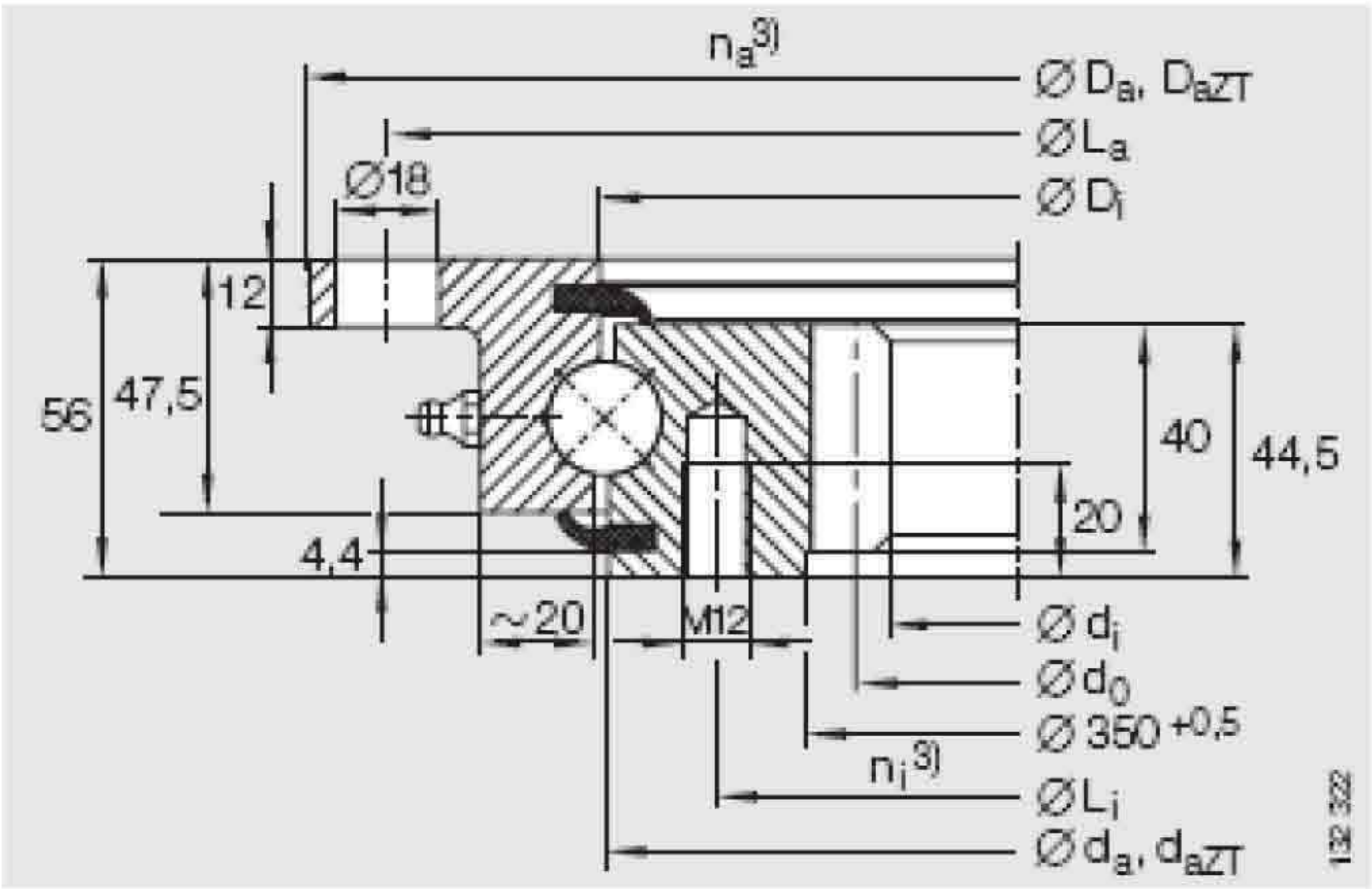


| Designations |           |                 | Boundary Dimension<br>(mm) |     |    | Bolt Hole Diameter<br>(mm) |      |                  |                  | Weight<br>(Kg) |
|--------------|-----------|-----------------|----------------------------|-----|----|----------------------------|------|------------------|------------------|----------------|
|              | ** INA    | **TG            | Da                         | di  | H  | La                         | Li   | na <sup>3)</sup> | ni <sup>3)</sup> |                |
| 20/518       | VLU200414 | SD.505.20.00.C  | 518                        | 304 | 56 | 490                        | 332  | 8                | 12               | 23             |
| 20/648       | VLU200544 | SD.650.20.00.C  | 648                        | 434 | 56 | 620                        | 462  | 10               | 14               | 34             |
| 20/748       | VLU200644 | SD.750.20.00.C  | 748                        | 534 | 56 | 720                        | 562  | 12               | 16               | 40             |
| 20/848       | VLU200744 | SD.850.20.00.C  | 848                        | 634 | 56 | 820                        | 662  | 12               | 16               | 46             |
| 20/948       | VLU200844 | SD.950.20.00.C  | 948                        | 734 | 56 | 920                        | 762  | 14               | 18               | 52             |
| 20/1048      | VLU200944 | SD.1050.20.00.C | 1048                       | 834 | 56 | 1020                       | 862  | 16               | 20               | 58             |
| 20/1198      | VLU201094 | SD.1200.20.00.C | 1198                       | 984 | 56 | 1170                       | 1012 | 16               | 20               | 67             |



| Designations |            |                | Boundary Dimension (mm) |     |    | Bolt Hole Diameter (mm) |      |                  |                  | Gear teeth |     | Weight (Kg) |
|--------------|------------|----------------|-------------------------|-----|----|-------------------------|------|------------------|------------------|------------|-----|-------------|
|              | ** INA     | **TG           | Da                      | di  | H  | La                      | Li   | na <sup>3)</sup> | ni <sup>3)</sup> | m          | z   |             |
| 21/518       | VLA200414N | E.505.20.00.C  | 503.3                   | 304 | 56 | 455                     | 332  | 10               | 12               | 5          | 99  | 29.5        |
| 21/648       | VLA200544N | E.650.20.00.C  | 640                     | 434 | 56 | 585                     | 462  | 14               | 14               | 6          | 105 | 41.5        |
| 21/748       | VLA200644N | E.750.20.00.C  | 742                     | 534 | 56 | 685                     | 562  | 16               | 16               | 6          | 122 | 48.5        |
| 21/848       | VLA200744N | E.850.20.00.C  | 838                     | 634 | 56 | 785                     | 662  | 18               | 16               | 6          | 138 | 54.5        |
| 21/948       | VLA200844N | E.950.20.00.C  | 950                     | 734 | 56 | 885                     | 762  | 18               | 18               | 8          | 117 | 65.5        |
| 21/1048      | VLA200944N | E.1050.20.00.C | 1046                    | 834 | 56 | 985                     | 862  | 20               | 20               | 8          | 129 | 71.5        |
| 21/1198      | VLA201094N | E.1200.20.00.C | 1198                    | 984 | 56 | 1135                    | 1012 | 22               | 20               | 8          | 148 | 83.5        |

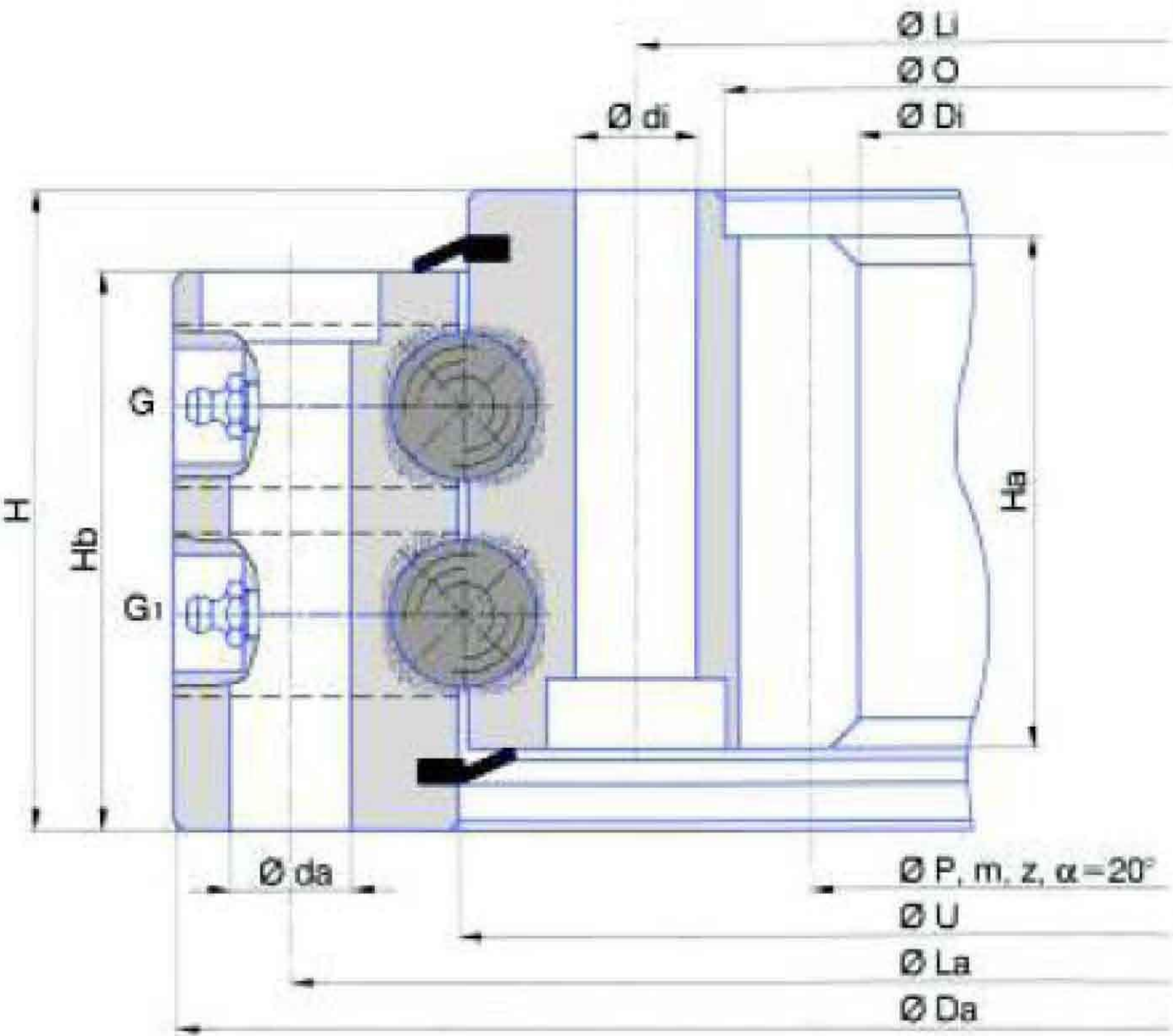
Single-row Four Point Contact Ball Slewing Bearing  
(Internal gear type)



| Designations |            |                | Boundary Dimension (mm) |     |    | Bolt Hole Diameter (mm) |      |                  |                  | Gear teeth |     | Weight (Kg) |
|--------------|------------|----------------|-------------------------|-----|----|-------------------------|------|------------------|------------------|------------|-----|-------------|
|              | ** INA     | **TG           | Da                      | di  | H  | La                      | Li   | na <sup>3)</sup> | ni <sup>3)</sup> | m          | z   |             |
| 22/518       | VLI200414N | I.505.20.00.C  | 518                     | 325 | 56 | 490                     | 375  | 8                | 12               | 5          | 67  | 27.5        |
| 22/648       | VLI200544N | I.650.20.00.C  | 648                     | 444 | 56 | 620                     | 505  | 10               | 16               | 6          | 76  | 38          |
| 22/748       | VLI200644N | I.750.20.00.C  | 748                     | 546 | 56 | 720                     | 605  | 12               | 18               | 6          | 93  | 45          |
| 22/848       | VLI200744N | I.850.20.00.C  | 848                     | 648 | 56 | 820                     | 705  | 12               | 20               | 6          | 110 | 51.5        |
| 22/948       | VLI200844N | I.950.20.00.C  | 948                     | 736 | 56 | 920                     | 805  | 14               | 20               | 8          | 94  | 61.5        |
| 22/1048      | VLI200944N | I.1050.20.00.C | 1048                    | 840 | 56 | 1020                    | 905  | 16               | 22               | 8          | 107 | 67.5        |
| 22/1198      | VLI201094N | I.1200.20.00.C | 1198                    | 984 | 56 | 1170                    | 1055 | 16               | 24               | 8          | 125 | 81.5        |

Double row ball slewing bearing

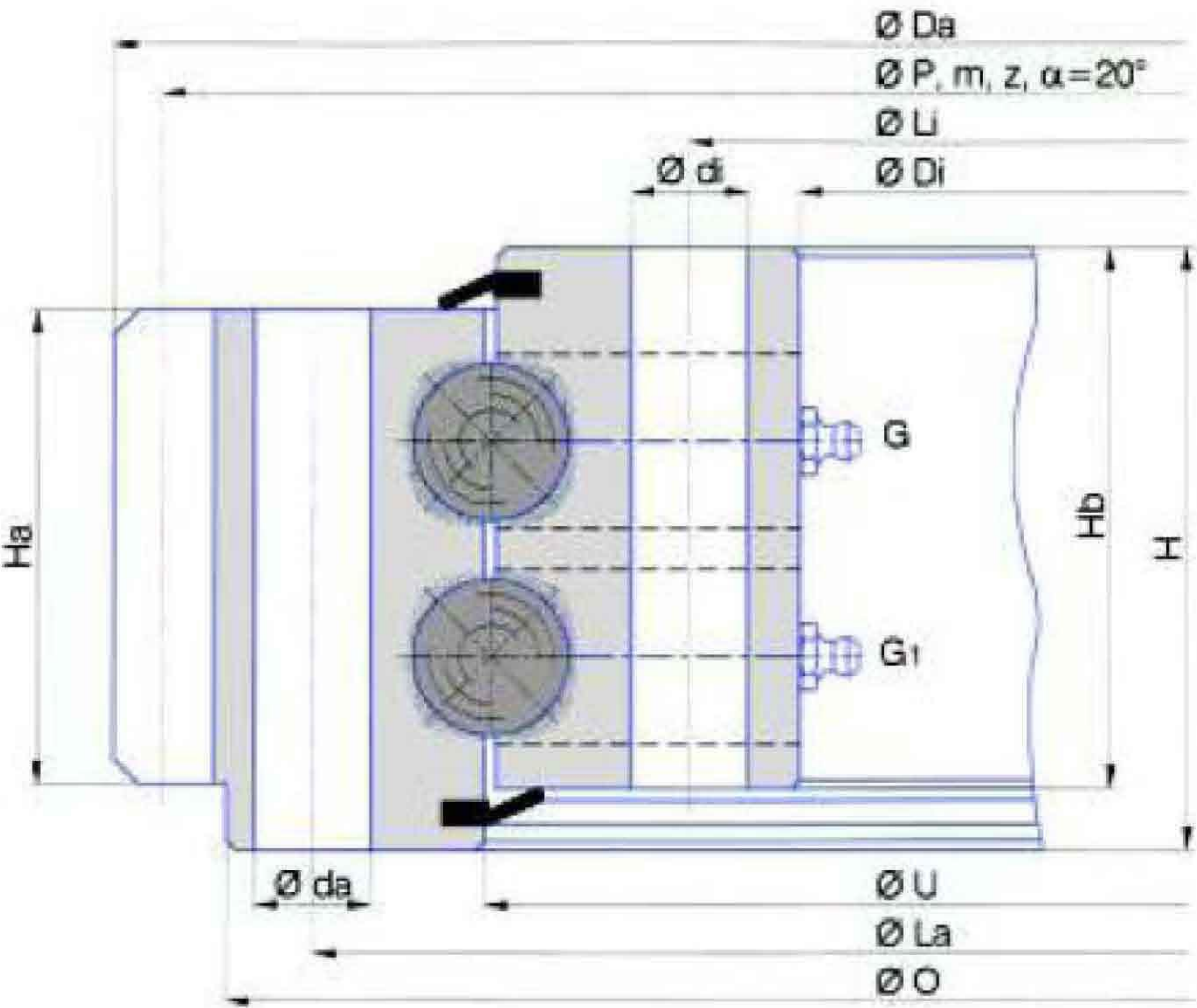
(Internal gear type)



| Designations |                    | Boundary Dimension (mm) |        |     | Bolt Hole Diameter (mm) |    |    |    | Gear teeth |     | Weight (Kg) |
|--------------|--------------------|-------------------------|--------|-----|-------------------------|----|----|----|------------|-----|-------------|
|              | **TG               | Da                      | Di     | H   | na                      | da | ni | di | m          | z   |             |
| 022/973      | I.973.2.22.00.D.6  | 973                     | 786    | 97  | 36                      | 17 | 36 | 17 | 8          | 100 | 141         |
| 022/1165     | I.1165.2.22.00.D.6 | 1165                    | 962    | 97  | 36                      | 17 | 36 | 17 | 10         | 98  | 187         |
| 022/1200     | I.1200.2.25.00.D.6 | 1200                    | 963.5  | 110 | 36                      | 21 | 36 | 21 | 10         | 98  | 230         |
| 022/1345     | I.1346.2.30.05.D.6 | 1345                    | 1061.6 | 108 | 48                      | 21 | 48 | 21 | 10         | 108 | 326         |
| 022/1750     | I.1750.2.30.20.D.6 | 1750                    | 1418.4 | 120 | 48                      | 25 | 48 | 25 | 12         | 120 | 564         |

Double row ball slewing bearing

(External gear type)



| Designations |                      | Boundary Dimension (mm) |     |    | Bolt Hole Diameter (mm) |     |    |    | Gear teeth |     | Weight (Kg) |
|--------------|----------------------|-------------------------|-----|----|-------------------------|-----|----|----|------------|-----|-------------|
|              | **TG                 | Da                      | Di  | H  | na                      | da  | ni | di | m          | z   |             |
| 021/504      | E.504.2.25.00.D.6    | 504                     | 300 | 95 | 16                      | 17  | 16 | 17 | 8          | 61  | 65          |
| 021/608      | E.608.2.25.10.D.6    | 608                     | 382 | 95 | 24                      | 17  | 24 | 17 | 8          | 74  | 84          |
| 021/712      | E.712.2.25.12.D.6    | 712                     | 470 | 98 | 24                      | 17  | 24 | 17 | 8          | 87  | 103         |
| 021/1079     | E.1079.2.20.12.D.3-V | 1079                    | 893 | 90 | 30                      | M16 | 30 | 18 | 8          | 131 | 140         |
| 021/1080     | E.1080.2.22.00.D.6   | 1080                    | 893 | 92 | 30                      | 17  | 30 | 17 | 8          | 133 | 150         |
| 021/1200     | E.1200.2.25.00.D.1   | 1200                    | 976 | 98 | 36                      | 19  | 36 | 19 | 8          | 148 | 210         |

|                     | Max. | Min. | Unit | % of Service Time |
|---------------------|------|------|------|-------------------|
| Axial Load :        |      |      | kN   |                   |
| Radial Load :       |      |      | KN   |                   |
| Tangential Forces : |      |      | KN   |                   |
| Maximum Test Load : |      |      | KN   |                   |
| Moment Load :       |      |      | kNm  |                   |

THANK YOU FOR YOUR CHOOSE ! WE WILL PRODUCE THE BEARING ACCORDING TO YOUR REQUIRY !

