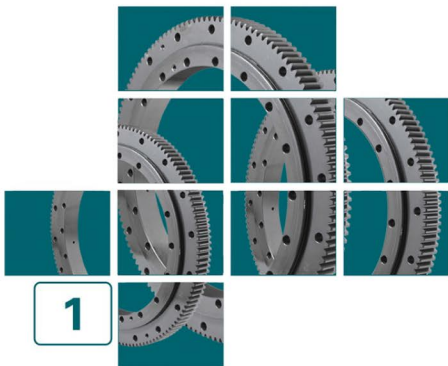




汇工轴承  
HUIGONG BEARING



## Slewing Bearing

LUOYANG HUIGONG BEARING TECHNOLOGY CO., LTD.

# Single Row Ball Bearing External Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly

Type: Single Row Ball Bearing External Gear

Weight: KG: 24-2800

Strengths: The Oil nipple's location can be changed according to the user's application.

Application:

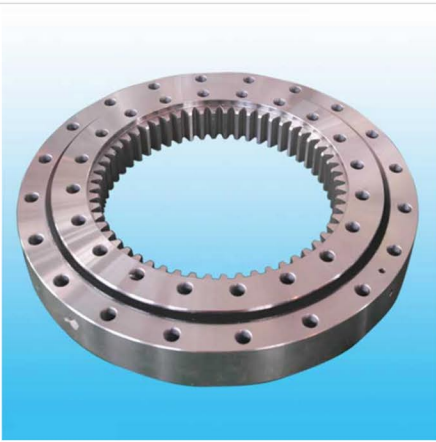
1. food machinery,
2. canning machinery
3. environmental machinery etc.

| No | External gear                    | Dimensions (mm) |      |     | Mounting Dimensions (mm) |      |    |    | Structural Dimension (mm) |    |    |              | Gear data |     |    |     | Gearforce 10 <sup>4</sup> KN |     | weight<br>kg |        |      |      |      |     |
|----|----------------------------------|-----------------|------|-----|--------------------------|------|----|----|---------------------------|----|----|--------------|-----------|-----|----|-----|------------------------------|-----|--------------|--------|------|------|------|-----|
|    |                                  | D               | d    | H   | D1                       | D2   | n  | Φ  | dm                        | L  | n1 | D3           | d1        | H1  | h  | b   | x                            | M   |              | De     | z    | N    | T    |     |
| 1  | 011.20.200                       | 280             | 120  | 60  | 248                      | 152  | 12 | 16 | M14                       | 28 | 2  | 201          | 199       | 50  | 10 | 40  | 0                            | 3   | 300          | 98     | 1.5  | 2.1  | 24   |     |
| 2  | 011.20.224                       | 304             | 144  | 60  | 272                      | 176  | 12 | 16 | M14                       | 28 | 2  | 225          | 223       | 50  | 10 | 40  | 0                            | 3   | 321          | 105    | 1.5  | 2.1  | 25   |     |
| 3  | 011.20.250                       | 330             | 170  | 60  | 298                      | 202  | 18 | 16 | M14                       | 28 | 2  | 251          | 249       | 50  | 10 | 40  | 0                            | 4   | 352          | 86     | 2.1  | 2.8  | 30   |     |
| 4  | 011.20.280                       | 360             | 200  | 60  | 328                      | 232  | 18 | 16 | M14                       | 28 | 2  | 281          | 279       | 50  | 10 | 40  | 0                            | 4   | 384          | 94     | 1.5  | 2.8  | 34   |     |
| 5  | 011.25.315                       | 408             | 222  | 70  | 372                      | 258  | 20 | 18 | M16                       | 32 | 2  | 316          | 314       | 60  | 10 | 50  | 0                            | 5   | 435          | 85     | 2.9  | 4.4  | 52   |     |
| 6  | 011.25.355                       | 448             | 262  | 70  | 412                      | 298  | 20 | 18 | M16                       | 32 | 2  | 356          | 354       | 60  | 10 | 50  | 0                            | 5   | 475          | 93     | 2.9  | 4.4  | 59   |     |
| 7  | 011.25.400                       | 493             | 307  | 70  | 457                      | 343  | 20 | 18 | M16                       | 32 | 2  | 401          | 399       | 60  | 10 | 50  | 0                            | 6   | 528          | 86     | 3.5  | 5.3  | 69   |     |
| 8  | 011.25.450                       | 543             | 357  | 70  | 507                      | 393  | 20 | 18 | M16                       | 32 | 2  | 451          | 449       | 60  | 10 | 50  | 0                            | 6   | 576          | 94     | 3.5  | 5.3  | 76   |     |
| 9  | 011.25/30.500<br>012.25/30.500   | 602             | 398  | 80  | 566                      | 434  | 20 | 18 | M16                       | 32 | 4  | 501          | 499       | 498 | 70 | 10  | 60                           | 0.5 | 5            | 629    | 123  | 3.7  | 5.2  | 85  |
| 10 | 011.25/30.560<br>012.25/30.560   | 662             | 458  | 80  | 626                      | 494  | 20 | 18 | M16                       | 32 | 4  | 561          | 559       | 558 | 70 | 10  | 60                           | 0.5 | 5            | 689    | 135  | 3.7  | 5.2  | 95  |
| 11 | 011.25/30.630<br>012.25/30.630   | 732             | 528  | 80  | 696                      | 564  | 24 | 18 | M16                       | 32 | 4  | 631          | 629       | 628 | 70 | 10  | 60                           | 0.5 | 6            | 772.8  | 126  | 4.5  | 6.2  | 110 |
| 12 | 011.25/30.710<br>012.25/30.710   | 812             | 608  | 80  | 776                      | 644  | 24 | 18 | M16                       | 32 | 4  | 711          | 709       | 708 | 70 | 10  | 60                           | 0.5 | 6            | 850.8  | 139  | 4.5  | 6.2  | 120 |
| 13 | 011.30/40.800<br>012.30/40.800   | 922             | 678  | 100 | 878                      | 722  | 30 | 22 | M20                       | 40 | 6  | 801          | 798       | 90  | 10 | 80  | 0.5                          | 8   | 966.4        | 118    | 8    | 11.1 | 220  |     |
| 14 | 011.30/40.900<br>012.30/40.900   | 1022            | 778  | 100 | 978                      | 822  | 30 | 22 | M20                       | 40 | 6  | 901          | 898       | 90  | 10 | 80  | 0.5                          | 8   | 1062.4       | 130    | 8    | 11.1 | 240  |     |
| 15 | 011.30/40.1000<br>012.30/40.1000 | 1122            | 878  | 100 | 1078                     | 922  | 36 | 22 | M20                       | 40 | 6  | 1001         | 998       | 90  | 10 | 80  | 0.5                          | 10  | 1188         | 116    | 10   | 14   | 270  |     |
| 16 | 011.30/40.1120<br>012.30/40.1120 | 1242            | 998  | 100 | 1198                     | 1042 | 36 | 22 | M20                       | 40 | 6  | 1121         | 1118      | 90  | 10 | 80  | 0.5                          | 10  | 1298         | 127    | 10   | 14   | 300  |     |
| 17 | 011.35/45.1250<br>012.35/45.1250 | 1390            | 1110 | 110 | 1337                     | 1163 | 40 | 26 | M24                       | 48 | 5  | 1252         | 1248      | 100 | 10 | 90  | 0.5                          | 12  | 1449.6       | 118    | 13.5 | 18.8 | 420  |     |
| 18 | 011.35/45.1400<br>012.35/45.1400 | 1540            | 1260 | 110 | 1487                     | 1313 | 40 | 26 | M24                       | 48 | 5  | 1402         | 1398      | 100 | 10 | 90  | 0.5                          | 14  | 1605.6       | 131    | 13.5 | 18.8 | 480  |     |
| 19 | 011.35/45.1600<br>012.35/45.1600 | 1740            | 1460 | 110 | 1687                     | 1513 | 45 | 26 | M24                       | 48 | 5  | 1602         | 1598      | 100 | 10 | 90  | 0.5                          | 14  | 1817.2       | 127    | 15.8 | 21.9 | 550  |     |
| 20 | 011.35/45.1800<br>012.35/45.1800 | 1940            | 1660 | 110 | 1887                     | 1713 | 45 | 26 | M24                       | 48 | 5  | 1801<br>1802 | 1798      | 100 | 10 | 90  | 0.5                          | 14  | 2013.2       | 141    | 15.8 | 21.9 | 610  |     |
| 21 | 011.40/60.2000<br>012.40/60.2000 | 2178            | 1825 | 144 | 2110                     | 1891 | 48 | 33 | M30                       | 60 | 8  | 2001<br>2002 | 1998      | 132 | 12 | 120 | 0.5                          | 16  | 2268.8       | 139    | 24.1 | 33.3 | 1100 |     |
| 22 | 011.40/60.2240<br>012.40/60.2240 | 2418            | 2065 | 144 | 2350                     | 2131 | 48 | 33 | M30                       | 60 | 8  | 2241<br>2242 | 2238      | 132 | 12 | 120 | 0.5                          | 16  | 2492.8       | 153    | 24.1 | 33.3 | 1250 |     |
| 23 | 011.40/60.2500<br>012.40/60.2500 | 2678            | 2325 | 144 | 2610                     | 2391 | 56 | 33 | M30                       | 60 | 8  | 2501<br>2502 | 2498      | 132 | 12 | 120 | 0.5                          | 18  | 2768.4       | 151    | 27.1 | 37.5 | 1400 |     |
| 24 | 011.40/60.2800<br>012.40/60.2800 | 2978            | 2625 | 144 | 2910                     | 2691 | 56 | 33 | M30                       | 60 | 8  | 2802         | 2798      | 132 | 12 | 120 | 0.5                          | 18  | 3074.4       | 168    | 27.1 | 37.5 | 1600 |     |
| 25 | 011.50/75.3150<br>012.50/75.3150 | 3376            | 2922 | 174 | 3286                     | 3014 | 56 | 45 | M42                       | 84 | 8  | 3152         | 3147      | 162 | 12 | 150 | 0.5                          | 20  | 3476         | 171    | 37.7 | 52.2 | 2800 |     |
|    |                                  |                 |      |     |                          |      |    |    |                           |    |    |              |           |     |    |     |                              |     | 22           | 3471.6 | 155  | 41.5 | 57.4 |     |

Note:

1. n1 is the nos of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.2 The Oil nipple's location can be changed according to the user's application.
2. n-φ can change to tapped hole, the diameter of tapped hole is M, depth is 2M.
3. The tangential tooth force in the form is the max tooth force, the nominal tangential tooth force is 1/2 of the max one.
4. "K" is addendum reduction coefficient.

# Single Row Ball bearing Internal Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly

Title: Single Row Ball bearing Internal Gear

Wight/KG: 85-2800

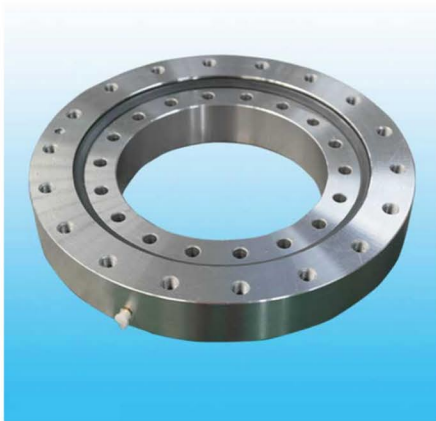
Strengths: The Oil nipple's location can be change according to the user's application.

| No  | Internal gear | Dimensions (mm) |      |     | Mounting Dimensions (mm) |      |    |    |     | Structural Dimensions mm |    |      |      |     | Gear data |      |     |        | Gear force N |      | 10 <sup>4</sup> Wght kg |      |      |
|-----|---------------|-----------------|------|-----|--------------------------|------|----|----|-----|--------------------------|----|------|------|-----|-----------|------|-----|--------|--------------|------|-------------------------|------|------|
|     |               | D               | d    | H   | D1                       | D2   | n  | Φ  | dm  | L                        | n1 | D3   | d1   | H1  | h         | b    | x   | M      | De           | z    |                         | N    | T    |
| 1   | 013.25.315    | 408             | 222  | 70  | 372                      | 258  | 20 | 18 | M16 | 32                       | 2  | 316  | 314  | 60  | 10        | 50   | 0   | 5      | 190          | 40   | 2.9                     | 4.4  |      |
| 2   | 013.25.355    | 448             | 262  | 70  | 412                      | 298  | 20 | 18 | M16 | 32                       | 2  | 356  | 354  | 60  | 10        | 50   | 0   | 5      | 235          | 49   | 2.9                     | 4.4  |      |
| 3   | 013.25.400    | 493             | 307  | 70  | 457                      | 343  | 20 | 18 | M16 | 32                       | 2  | 401  | 399  | 60  | 10        | 50   | 0   | 6      | 276          | 48   | 3.5                     | 5.3  |      |
| 4   | 013.25.450    | 543             | 357  | 70  | 507                      | 393  | 20 | 18 | M16 | 32                       | 2  | 451  | 449  | 60  | 10        | 50   | 0   | 6      | 324          | 56   | 3.5                     | 5.3  |      |
| 5   | 013.30.500    | 602             | 398  | 80  | 566                      | 434  | 20 | 18 | M16 | 32                       | 4  | 501  | 498  | 70  | 10        | 60   | 0.5 | 5      | 367          | 74   | 3.7                     | 5.2  | 85   |
|     | 6             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 368.4  | 62           | 4.5  | 6.2                     |      |      |
| 5'  | 013.25.500    | 602             | 398  | 80  | 566                      | 434  | 20 | 18 | M16 | 32                       | 4  | 501  | 499  | 70  | 10        | 60   | 0.5 | 5      | 367          | 74   | 3.7                     | 5.2  | 85   |
|     | 6             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 368.4  | 62           | 4.5  | 6.2                     |      |      |
| 6   | 013.30.560    | 662             | 458  | 80  | 626                      | 494  | 20 | 18 | M16 | 32                       | 4  | 561  | 558  | 70  | 10        | 60   | 0.5 | 5      | 427          | 86   | 3.7                     | 5.2  | 95   |
|     | 6             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 428.4  | 72           | 4.5  | 6.2                     |      |      |
| 6'  | 013.25.560    | 662             | 458  | 80  | 626                      | 494  | 20 | 18 | M16 | 32                       | 4  | 561  | 559  | 70  | 10        | 60   | 0.5 | 5      | 427          | 86   | 3.7                     | 5.2  | 95   |
|     | 6             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 428.4  | 72           | 4.5  | 6.2                     |      |      |
| 7   | 013.30.630    | 732             | 528  | 80  | 696                      | 564  | 24 | 18 | M16 | 32                       | 4  | 631  | 628  | 70  | 10        | 60   | 0.5 | 6      | 494.4        | 83   | 4.5                     | 6.2  | 110  |
|     | 8             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 491.2  | 62           | 6    | 8.3                     |      |      |
| 7'  | 013.25.630    | 732             | 528  | 80  | 696                      | 564  | 24 | 18 | M16 | 32                       | 4  | 631  | 629  | 70  | 10        | 60   | 0.5 | 6      | 494.4        | 83   | 4.5                     | 6.2  | 110  |
|     | 8             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 491.2  | 62           | 6    | 8.2                     |      |      |
| 8   | 013.30.710    | 812             | 608  | 80  | 776                      | 644  | 24 | 18 | M16 | 32                       | 4  | 711  | 708  | 70  | 10        | 60   | 0.5 | 6      | 572.4        | 96   | 4.5                     | 6.2  | 120  |
|     | 8             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 571.2  | 72           | 6    | 8.3                     |      |      |
| 8'  | 013.25.710    | 812             | 608  | 80  | 776                      | 644  | 24 | 18 | M16 | 32                       | 4  | 711  | 709  | 70  | 10        | 60   | 0.5 | 6      | 572.4        | 96   | 4.5                     | 6.2  | 120  |
|     | 8             |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 571.2  | 72           | 6    | 8.9                     |      |      |
| 9   | 013.40.800    | 922             | 678  | 100 | 878                      | 722  | 30 | 22 | M20 | 40                       | 6  | 801  | 798  | 90  | 10        | 80   | 0.5 | 8      | 635.2        | 80   | 8                       | 11.1 | 220  |
|     | 10            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 634    | 64           | 10   | 14                      |      |      |
| 9'  | 013.30.800    | 922             | 678  | 100 | 878                      | 722  | 30 | 22 | M20 | 40                       | 6  | 801  | 798  | 90  | 10        | 80   | 0.5 | 8      | 635.2        | 80   | 8                       | 11.1 | 220  |
|     | 10            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 634    | 64           | 10   | 14.1                    |      |      |
| 10  | 013.40.900    | 1022            | 778  | 100 | 978                      | 822  | 30 | 22 | M20 | 40                       | 6  | 901  | 898  | 90  | 10        | 80   | 0.5 | 8      | 739.2        | 93   | 8                       | 11.1 | 240  |
|     | 10            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 734    | 74           | 10   | 14                      |      |      |
| 10' | 013.30.900    | 1022            | 778  | 100 | 978                      | 822  | 30 | 22 | M20 | 40                       | 6  | 901  | 898  | 90  | 10        | 80   | 0.5 | 8      | 739.2        | 93   | 8                       | 11.1 | 240  |
|     | 10            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 734    | 74           | 10   | 14                      |      |      |
| 11  | 013.40.1000   | 1122            | 878  | 100 | 1078                     | 922  | 36 | 22 | M20 | 40                       | 6  | 1001 | 998  | 90  | 10        | 80   | 0.5 | 10     | 824          | 83   | 10                      | 14   | 270  |
|     | 12            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 820.8  | 69           | 12   | 16.7                    |      |      |
| 11' | 013.30.1000   | 1122            | 878  | 100 | 1078                     | 922  | 36 | 22 | M20 | 40                       | 6  | 1001 | 998  | 90  | 10        | 80   | 0.5 | 10     | 824          | 83   | 10                      | 14   | 270  |
|     | 12            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 820.8  | 69           | 12   | 16.7                    |      |      |
| 12  | 013.40.1120   | 1242            | 998  | 100 | 1198                     | 1042 | 36 | 22 | M20 | 40                       | 6  | 1121 | 1118 | 90  | 10        | 80   | 0.5 | 10     | 944          | 95   | 10                      | 14   | 300  |
|     | 12            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 940.8  | 79           | 12   | 16.7                    |      |      |
| 12' | 013.30.1120   | 1242            | 998  | 100 | 1198                     | 1042 | 36 | 22 | M20 | 40                       | 6  | 1121 | 1118 | 90  | 10        | 80   | 0.5 | 10     | 944          | 95   | 10                      | 14   | 300  |
|     | 12            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 940.8  | 79           | 12   | 16.7                    |      |      |
| 13  | 013.45.1250   | 1390            | 1110 | 110 | 1337                     | 1163 | 40 | 26 | M24 | 48                       | 5  | 1252 | 1248 | 100 | 10        | 90   | 0.5 | 12     | 1048.8       | 88   | 13.5                    | 18.8 | 420  |
|     | 14            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1041.6 | 75           | 15.8 | 21.9                    |      |      |
| 13' | 013.35.1250   | 1390            | 1110 | 110 | 1337                     | 1163 | 40 | 26 | M24 | 48                       | 5  | 1251 | 1248 | 100 | 10        | 90   | 0.5 | 12     | 1048.8       | 88   | 13.5                    | 18.8 | 420  |
|     | 14            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1041.6 | 75           | 15.8 | 21.9                    |      |      |
| 14  | 013.45.1400   | 1540            | 1260 | 110 | 1487                     | 1313 | 40 | 26 | M24 | 48                       | 5  | 1402 | 1398 | 100 | 10        | 90   | 0.5 | 12     | 1192.8       | 100  | 13.5                    | 18.8 | 480  |
|     | 14            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1195.6 | 86           | 15.5 | 21.9                    |      |      |
| 14' | 013.35.1400   | 1540            | 1260 | 110 | 1487                     | 1313 | 40 | 26 | M24 | 48                       | 5  | 1401 | 1398 | 100 | 10        | 90   | 0.5 | 12     | 1192.8       | 100  | 13.5                    | 18.8 | 480  |
|     | 14            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1195.6 | 86           | 15.8 | 21.9                    |      |      |
| 15  | 013.45.1600   | 1740            | 1460 | 110 | 1687                     | 1513 | 45 | 26 | M24 | 48                       | 5  | 1602 | 1598 | 100 | 10        | 90   | 0.5 | 14     | 1391.6       | 100  | 15.8                    | 21.9 | 550  |
|     | 16            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1382.4 | 87           | 18.1 | 25                      |      |      |
| 15' | 013.35.1600   | 1740            | 1460 | 110 | 1687                     | 1513 | 45 | 26 | M24 | 48                       | 5  | 1601 | 1598 | 100 | 10        | 90   | 0.5 | 14     | 1391.6       | 100  | 15.8                    | 21.9 | 550  |
|     | 16            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1382.4 | 87           | 18.1 | 25                      |      |      |
| 16  | 013.45.1800   | 1940            | 1660 | 110 | 1887                     | 1713 | 45 | 26 | M24 | 48                       | 5  | 1802 | 1798 | 100 | 10        | 90   | 0.5 | 14     | 1573.6       | 113  | 15.8                    | 21.9 | 610  |
|     | 16            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1574.4 | 99           | 18.1 | 25                      |      |      |
| 16' | 013.35.1800   | 1940            | 1660 | 110 | 1887                     | 1713 | 45 | 26 | M24 | 48                       | 5  | 1801 | 1798 | 100 | 10        | 90   | 0.5 | 14     | 1573.6       | 113  | 15.8                    | 21.9 | 610  |
|     | 16            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1574.4 | 99           | 18.1 | 25                      |      |      |
| 17  | 013.60.2000   | 2178            | 1825 | 144 | 2110                     | 1891 | 48 | 33 | M30 | 60                       | 8  | 2002 | 1998 | 132 | 12        | 1200 | 0.5 | 16     | 1734.4       | 109  | 24.1                    | 33.3 | 1100 |
|     | 18            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1735.2 | 97           | 27.1 | 37.5                    |      |      |
| 17' | 013.40.2000   | 2178            | 1825 | 144 | 2110                     | 1891 | 48 | 33 | M30 | 60                       | 8  | 2001 | 1998 | 132 | 12        | 1200 | 0.5 | 16     | 1734.4       | 109  | 24.1                    | 33.3 | 1100 |
|     | 18            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1735.2 | 97           | 27.1 | 37.5                    |      |      |
| 18  | 013.60.2240   | 2418            | 2065 | 144 | 2350                     | 2131 | 48 | 33 | M30 | 60                       | 8  | 2242 | 2238 | 132 | 12        | 1200 | 0.5 | 16     | 1990.4       | 125  | 24.1                    | 33.3 | 1250 |
|     | 18            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1987.2 | 111          | 27.1 | 37.5                    |      |      |
| 18' | 013.40.2240   | 2418            | 2065 | 144 | 2350                     | 2131 | 48 | 33 | M30 | 60                       | 8  | 2241 | 2238 | 132 | 12        | 1200 | 0.5 | 16     | 1990.4       | 125  | 24.1                    | 33.3 | 1250 |
|     | 18            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 1987.2 | 111          | 27.1 | 37.5                    |      |      |
| 19  | 013.60.2500   | 2678            | 2325 | 144 | 2610                     | 2391 | 56 | 33 | M30 | 60                       | 8  | 2502 | 2498 | 132 | 12        | 1200 | 0.5 | 18     | 2239.2       | 125  | 27.1                    | 37.5 | 1400 |
|     | 20            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 2228   | 112          | 30.1 | 41.8                    |      |      |
| 19' | 013.40.2500   | 2678            | 2325 | 144 | 2610                     | 2391 | 56 | 33 | M30 | 60                       | 8  | 2501 | 2498 | 132 | 12        | 1200 | 0.5 | 18     | 2239.2       | 125  | 27.1                    | 37.5 | 1400 |
|     | 20            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 2228   | 112          | 30.1 | 41.8                    |      |      |
| 20  | 013.60.2800   | 2978            | 2625 | 144 | 2910                     | 2691 | 56 | 33 | M30 | 60                       | 8  | 2802 | 2798 | 132 | 12        | 1200 | 0.5 | 18     | 2527.2       | 141  | 27.1                    | 37.5 | 1600 |
|     | 20            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 2528   | 127          | 30.1 | 41.8                    |      |      |
| 20' | 013.40.2800   | 2978            | 2625 | 144 | 2910                     | 2691 | 56 | 33 | M30 | 60                       | 8  | 2802 | 2798 | 132 | 12        | 1200 | 0.5 | 18     | 2527.2       | 141  | 27.1                    | 37.5 | 1600 |
|     | 20            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 2528   | 127          | 30.1 | 41.8                    |      |      |
| 21  | 013.75.3150   | 3376            | 2922 | 174 | 3286                     | 3014 | 56 | 45 | M42 | 84                       | 8  | 3152 | 3147 | 162 | 12        | 1500 | 0.5 | 20     | 2828         | 142  | 37.7                    | 52.2 | 2800 |
|     | 22            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 2824.8 | 129          | 41.5 | 57.4                    |      |      |
| 21' | 013.50.3150   | 3376            | 2922 | 174 | 3286                     | 3014 | 56 | 45 | M42 | 84                       | 8  | 3152 | 3147 | 162 | 12        | 1500 | 0.5 | 20     | 2828         | 142  | 37.7                    | 52.2 | 2800 |
|     | 22            |                 |      |     |                          |      |    |    |     |                          |    |      |      |     |           |      |     | 2824.8 | 129          | 41.5 | 57.4                    |      |      |

**Note:**

- N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
- The Oil nipple's location can be change according to the user's application.
- n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
- The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
- "K" is addendum reduction coefficient.

## Single Row Ball Bearing Without Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly

Title: Single Row Ball Bearing Without Gear

Wight/KG: 20-2800

Strengths: The Oil nipple's location can be change according to the user's application.

Application:

1. food machinaery,
2. canning machinery
3. environmental machinery etc.

| No | Model          | Dimensions(mm) |      |     | Mounting Dimensions |      |    |    |     | Structural Dimensions(mm) |    |      |      |     | Weightkg |      |
|----|----------------|----------------|------|-----|---------------------|------|----|----|-----|---------------------------|----|------|------|-----|----------|------|
|    |                | D              | d    | H   | D1                  | D2   | n  | Φ  | dm  | L                         | n1 | D3   | d1   | H1  |          | h    |
| 1  | 010.20.200     | 280            | 120  | 60  | 248                 | 152  | 12 | 16 | M14 | 28                        | 2  | 201  | 199  | 50  | 10       | 20   |
| 2  | 010.20.224     | 304            | 144  | 60  | 272                 | 176  | 12 | 16 | M14 | 28                        | 2  | 225  | 223  | 50  | 10       | 22   |
| 3  | 010.20.250     | 330            | 170  | 60  | 298                 | 202  | 18 | 16 | M14 | 28                        | 2  | 251  | 249  | 50  | 10       | 25   |
| 4  | 010.20.280     | 360            | 200  | 60  | 328                 | 232  | 18 | 16 | M14 | 28                        | 2  | 281  | 279  | 50  | 10       | 28   |
| 5  | 010.25.315     | 408            | 222  | 70  | 372                 | 258  | 20 | 18 | M16 | 32                        | 2  | 316  | 314  | 60  | 10       | 44   |
| 6  | 010.25.355     | 448            | 262  | 70  | 412                 | 298  | 20 | 18 | M16 | 32                        | 2  | 356  | 354  | 60  | 10       | 49   |
| 7  | 010.25.400     | 493            | 307  | 70  | 457                 | 343  | 20 | 18 | M16 | 32                        | 2  | 401  | 399  | 60  | 10       | 56   |
| 8  | 010.25.450     | 543            | 357  | 70  | 507                 | 393  | 20 | 18 | M16 | 32                        | 2  | 451  | 449  | 60  | 10       | 62   |
| 9  | 010.25/30.500  | 602            | 398  | 80  | 566                 | 434  | 20 | 18 | M16 | 32                        | 4  | 501  | 498  | 70  | 10       | 85   |
| 10 | 010.25/30.560  | 662            | 458  | 80  | 626                 | 494  | 20 | 18 | M16 | 32                        | 4  | 561  | 558  | 70  | 10       | 95   |
| 11 | 010.25/30.630  | 732            | 528  | 80  | 696                 | 564  | 24 | 18 | M16 | 32                        | 4  | 631  | 628  | 70  | 10       | 110  |
| 12 | 010.25/30.710  | 812            | 608  | 80  | 776                 | 644  | 24 | 18 | M16 | 32                        | 4  | 711  | 708  | 70  | 10       | 120  |
| 13 | 010.30/40.800  | 922            | 678  | 100 | 878                 | 722  | 30 | 22 | M20 | 40                        | 6  | 801  | 798  | 90  | 10       | 220  |
| 14 | 010.30/40.900  | 1022           | 778  | 100 | 978                 | 822  | 30 | 22 | M20 | 40                        | 6  | 901  | 898  | 90  | 10       | 240  |
| 15 | 010.30/40.1000 | 1122           | 878  | 100 | 1078                | 922  | 36 | 22 | M20 | 40                        | 6  | 1001 | 998  | 90  | 10       | 270  |
| 16 | 010.30/40.1120 | 1242           | 998  | 100 | 1198                | 1042 | 36 | 22 | M20 | 40                        | 6  | 1121 | 1118 | 90  | 10       | 300  |
| 17 | 010.35/45.1250 | 1390           | 1110 | 110 | 1337                | 1163 | 40 | 26 | M24 | 48                        | 5  | 1252 | 1248 | 100 | 10       | 420  |
| 18 | 010.35/45.1400 | 1540           | 1260 | 110 | 1487                | 1313 | 40 | 26 | M24 | 48                        | 5  | 1402 | 1398 | 100 | 10       | 480  |
| 19 | 011.35/45.1600 | 1740           | 1460 | 110 | 1687                | 1513 | 45 | 26 | M24 | 48                        | 5  | 1602 | 1598 | 100 | 10       | 550  |
| 20 | 010.35/45.1800 | 1940           | 1660 | 110 | 1887                | 1713 | 45 | 26 | M24 | 48                        | 5  | 1802 | 1798 | 100 | 10       | 610  |
| 21 | 010.40/60.2000 | 2178           | 1825 | 144 | 2110                | 1891 | 48 | 33 | M30 | 60                        | 8  | 2002 | 1998 | 132 | 12       | 1100 |
| 22 | 010.40/60.2240 | 2418           | 2065 | 144 | 2350                | 2131 | 48 | 33 | M30 | 60                        | 8  | 2242 | 2238 | 132 | 12       | 1250 |
| 23 | 010.40/60.2500 | 2678           | 2325 | 144 | 2610                | 2391 | 56 | 33 | M30 | 60                        | 8  | 2502 | 2498 | 132 | 12       | 1400 |
| 24 | 010.40/60.2800 | 2978           | 2625 | 144 | 2910                | 2691 | 56 | 33 | M30 | 60                        | 8  | 2802 | 2798 | 132 | 12       | 1600 |
| 25 | 010.50/75.3150 | 3376           | 2922 | 174 | 3286                | 3014 | 56 | 45 | M42 | 84                        | 8  | 3152 | 3147 | 162 | 12       | 2800 |

Note:

1. n1 is the nos of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.2. The Oil nipple's location can be change according to the user's application.
2. n-φ can change to tapped hole, the diameter of tapped hole is M, depth is 2M.
3. The tangential tooth force in the form is the max tooth force, the nominal tangential tooth force is 1/2 of the max one.
4. "K" is addendum reduction coefficient.

# Single Row Crossed Roller Bearing External Gear



The Single row crossed roller slewing bearing is composed of two seat rings, which design in compact structure and light weight, the clearance is small when assembly, so need high precision. The roller are 1:1 cross arranged, it can bear the axial force, tilting moment and relatively large radial force. It is widely used for hoisting, transportation, construction machinery, and the military products.

Type: Single Row Crossed Roller Bearing External Gear

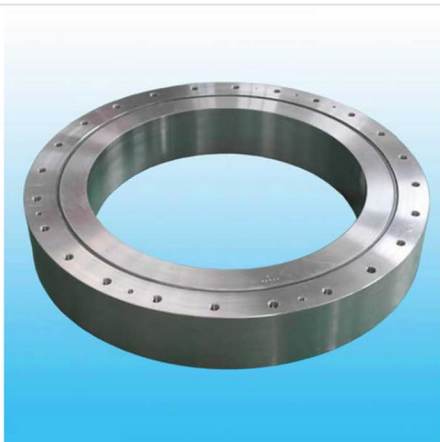
Weight: KG: 80-3100

| No | External gear<br>DL<br>mm | Dimensions |         |         | Mounting Dimension |          |         |          | Structural Dimension |          |          |          | Gear Data |         |         |     | Gear circumferential force |          | weight<br>kg |      |                       |                     |      |
|----|---------------------------|------------|---------|---------|--------------------|----------|---------|----------|----------------------|----------|----------|----------|-----------|---------|---------|-----|----------------------------|----------|--------------|------|-----------------------|---------------------|------|
|    |                           | D<br>mm    | d<br>mm | H<br>mm | D1<br>mm           | D2<br>mm | n<br>mm | dm<br>mm | L<br>mm              | n1<br>mm | D3<br>mm | d1<br>mm | H1<br>mm  | h<br>mm | b<br>mm | x   | m<br>mm                    | De<br>mm |              | z    | Normalizing<br>Z 104N | Quenching<br>T 104N |      |
| 1  | 111.25.500                | 602        | 398     | 75      | 566                | 434      | 20      | 18       | M16                  | 32       | 4        | 498      | 502       | 65      | 10      | 60  | 0.5                        | 5        | 629          | 123  | 3.7                   | 5.2                 | 80   |
|    | 6                         |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 628.8    | 102          | 4.5  | 6.2                   |                     |      |
| 2  | 111.25.560                | 662        | 458     | 75      | 626                | 494      | 20      | 18       | M16                  | 32       | 4        | 558      | 562       | 65      | 10      | 60  | 0.5                        | 5        | 689          | 135  | 3.7                   | 5.2                 | 90   |
|    | 6                         |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 688.8    | 112          | 4.5  | 6.2                   |                     |      |
| 3  | 111.25.630                | 732        | 528     | 75      | 696                | 564      | 24      | 18       | M16                  | 32       | 4        | 628      | 632       | 65      | 10      | 60  | 0.5                        | 6        | 772.8        | 126  | 4.5                   | 6.2                 | 100  |
|    | 8                         |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 774.4    | 94           | 6    | 8.3                   |                     |      |
| 4  | 111.25.710                | 812        | 608     | 75      | 776                | 644      | 24      | 18       | M16                  | 32       | 4        | 708      | 712       | 65      | 10      | 60  | 0.5                        | 6        | 850.8        | 139  | 4.5                   | 6.2                 | 110  |
|    | 8                         |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 854.4    | 104          | 6    | 8.3                   |                     |      |
| 5  | 111.28.800                | 922        | 678     | 82      | 878                | 722      | 30      | 22       | M20                  | 40       | 6        | 798      | 802       | 72      | 10      | 65  | 0.5                        | 8        | 966.4        | 118  | 6.5                   | 9.1                 | 170  |
|    | 10                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 968      | 94           | 8.1  | 11.4                  |                     |      |
| 6  | 111.28.900                | 1022       | 778     | 82      | 978                | 822      | 30      | 22       | M20                  | 40       | 6        | 898      | 902       | 72      | 10      | 65  | 0.5                        | 8        | 1062.4       | 130  | 6.5                   | 9.1                 | 190  |
|    | 10                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 1068     | 104          | 8.1  | 11.4                  |                     |      |
| 7  | 111.28.1000               | 1122       | 878     | 82      | 1078               | 922      | 36      | 22       | M20                  | 40       | 6        | 998      | 1002      | 72      | 10      | 65  | 0.5                        | 10       | 1188         | 116  | 8.1                   | 11.4                | 210  |
|    | 12                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 1185.6   | 96           | 9.7  | 13.6                  |                     |      |
| 8  | 111.28.1120               | 1242       | 998     | 82      | 1198               | 1042     | 36      | 22       | M20                  | 40       | 6        | 1118     | 1122      | 72      | 10      | 65  | 0.5                        | 10       | 1298         | 127  | 8.1                   | 11.4                | 230  |
|    | 12                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 1305.6   | 106          | 9.7  | 13.6                  |                     |      |
| 9  | 111.32.1250               | 1390       | 1110    | 91      | 1337               | 1163     | 40      | 26       | M24                  | 48       | 5        | 1248     | 1252      | 81      | 10      | 75  | 0.5                        | 12       | 1449.6       | 118  | 11.3                  | 15.7                | 350  |
|    | 14                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 1453.2   | 101          | 13.2 | 18.2                  |                     |      |
| 10 | 111.32.1400               | 1540       | 1260    | 91      | 1487               | 1313     | 40      | 26       | M24                  | 48       | 5        | 1398     | 1402      | 81      | 10      | 75  | 0.5                        | 12       | 1605.6       | 131  | 11.3                  | 15.7                | 400  |
|    | 14                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 1607.2   | 112          | 13.2 | 18.2                  |                     |      |
| 11 | 111.32.1600               | 1740       | 1460    | 91      | 1687               | 1513     | 45      | 26       | M24                  | 48       | 5        | 1598     | 1602      | 81      | 10      | 75  | 0.5                        | 14       | 1817.2       | 127  | 13.2                  | 18.2                | 440  |
|    | 16                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 1820.8   | 111          | 15.1 | 22.4                  |                     |      |
| 12 | 111.32.1800               | 1940       | 1660    | 91      | 1887               | 1713     | 45      | 26       | M24                  | 48       | 5        | 1798     | 1802      | 81      | 10      | 75  | 0.5                        | 14       | 2013.2       | 141  | 13.2                  | 18.2                | 500  |
|    | 16                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 2012.8   | 123          | 15.1 | 22.4                  |                     |      |
| 13 | 111.40.2000               | 2178       | 1825    | 112     | 2110               | 1891     | 48      | 33       | M30                  | 60       | 8        | 1997     | 2003      | 100     | 12      | 90  | 0.5                        | 16       | 2268.8       | 139  | 18.1                  | 25                  | 900  |
|    | 18                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 2264.4   | 123          | 20.3 | 28.1                  |                     |      |
| 14 | 111.40.2240               | 2418       | 2065    | 112     | 2350               | 2131     | 48      | 33       | M30                  | 60       | 8        | 2237     | 2243      | 100     | 12      | 90  | 0.5                        | 16       | 2492.8       | 153  | 18.1                  | 25                  | 1000 |
|    | 18                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 2498.4   | 136          | 20.3 | 28.1                  |                     |      |
| 15 | 111.40.2500               | 2678       | 2325    | 112     | 2610               | 2391     | 56      | 33       | M30                  | 60       | 8        | 2497     | 2503      | 100     | 12      | 90  | 0.5                        | 18       | 2768.4       | 151  | 20.3                  | 28.1                | 1100 |
|    | 20                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 2776     | 136          | 22.6 | 31.3                  |                     |      |
| 16 | 111.40.2800               | 2978       | 2625    | 112     | 2910               | 2691     | 56      | 33       | M30                  | 60       | 8        | 2797     | 2803      | 100     | 12      | 90  | 0.5                        | 18       | 3074.4       | 168  | 20.3                  | 28.1                | 1250 |
|    | 20                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 3076     | 151          | 22.6 | 31.3                  |                     |      |
| 17 | 111.50.3150               | 3376       | 2922    | 134     | 3286               | 3014     | 56      | 45       | M42                  | 84       | 8        | 3147     | 3153      | 122     | 12      | 110 | 0.5                        | 20       | 3476         | 171  | 27.6                  | 38.3                | 2150 |
|    | 22                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 3471.6   | 155          | 30.4 | 42.1                  |                     |      |
| 18 | 111.50.3550               | 3776       | 3322    | 134     | 3686               | 3414     | 56      | 45       | M42                  | 84       | 8        | 3547     | 3553      | 122     | 12      | 110 | 0.5                        | 20       | 3876         | 191  | 30.4                  | 38.3                | 2470 |
|    | 22                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 3889.6   | 174          | 30.4 | 42.1                  |                     |      |
| 19 | 111.50.4000               | 4226       | 3772    | 134     | 4136               | 3864     | 60      | 45       | M42                  | 84       | 10       | 3997     | 4003      | 122     | 12      | 110 | 0.5                        | 22       | 4329.6       | 194  | 30.4                  | 42.1                | 2800 |
|    | 25                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 4345     | 171          | 34.5 | 47.8                  |                     |      |
| 20 | 111.50.4500               | 4726       | 4272    | 134     | 4636               | 4364     | 60      | 45       | M42                  | 84       | 10       | 4497     | 4503      | 122     | 12      | 110 | 0.5                        | 22       | 4835.6       | 217  | 30.4                  | 42.1                | 3100 |
|    | 25                        |            |         |         |                    |          |         |          |                      |          |          |          |           |         |         |     |                            | 4845     | 191          | 34.5 | 47.8                  |                     |      |

**Note:**

- N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1-JB/T7940.
- The Oil nipple's location can be change according to the user's application.
- n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
- The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
- "K" is addendum reduction coefficient.

## Single Row Crossed Roller Bearing Without Gear



The Single row crossed roller slewing bearing is composed of two seat rings, which design in compact structure and light weight, the clearance is small when assembly, so need high precision. The rollers are 1:1 cross arranged, it can bear the axial force, tilting moment and relatively large radial force. It is widely used for hoisting, transportation, construction machinery, and the military products.

Title: Single Row Crossed Roller Bearing Without Gear

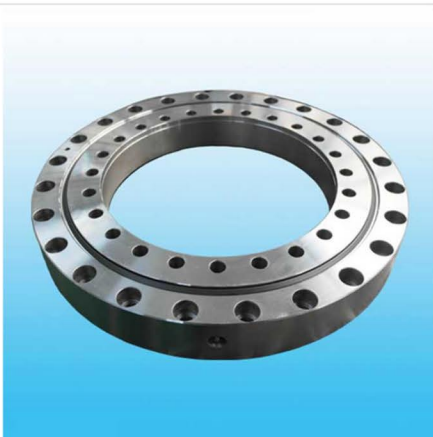
Weight: KG: 80-3100

| No | Non gear<br>D L<br>mm | Dimensions |         |         | Mounting Dimension |          |    |    |          |         | Structural Dimension |          |          |          | Weight<br>kg |         |
|----|-----------------------|------------|---------|---------|--------------------|----------|----|----|----------|---------|----------------------|----------|----------|----------|--------------|---------|
|    |                       | D<br>mm    | d<br>mm | H<br>mm | D1<br>mm           | D2<br>mm | n  | mm | dm<br>mm | L<br>mm | n1<br>mm             | D3<br>mm | d1<br>mm | H1<br>mm |              | h<br>mm |
| 1  | 110.25.500            | 602        | 398     | 75      | 566                | 434      | 20 | 18 | M16      | 32      | 4                    | 498      | 502      | 65       | 10           | 80      |
| 2  | 110.25.560            | 662        | 458     | 75      | 626                | 494      | 20 | 18 | M16      | 32      | 4                    | 558      | 562      | 65       | 10           | 90      |
| 3  | 110.25.630            | 732        | 528     | 75      | 696                | 564      | 24 | 18 | M16      | 32      | 4                    | 628      | 632      | 65       | 10           | 100     |
| 4  | 110.25.710            | 812        | 608     | 75      | 776                | 644      | 24 | 18 | M16      | 32      | 4                    | 708      | 712      | 65       | 10           | 110     |
| 5  | 110.28.800            | 922        | 678     | 82      | 878                | 722      | 30 | 22 | M20      | 40      | 6                    | 798      | 802      | 72       | 10           | 170     |
| 6  | 110.28.900            | 1022       | 778     | 82      | 978                | 822      | 30 | 22 | M20      | 40      | 6                    | 898      | 902      | 72       | 10           | 190     |
| 7  | 110.28.1000           | 1122       | 878     | 82      | 1078               | 922      | 36 | 22 | M20      | 40      | 6                    | 998      | 1002     | 72       | 10           | 210     |
| 8  | 110.28.1120           | 1242       | 998     | 82      | 1198               | 1042     | 36 | 22 | M20      | 40      | 6                    | 1118     | 1122     | 72       | 10           | 230     |
| 9  | 110.32.1250           | 1390       | 1110    | 91      | 1337               | 1163     | 40 | 26 | M24      | 48      | 5                    | 1248     | 1252     | 81       | 10           | 350     |
| 10 | 110.32.1400           | 1540       | 1260    | 91      | 1487               | 1313     | 40 | 26 | M24      | 48      | 5                    | 1398     | 1402     | 81       | 10           | 400     |
| 11 | 110.32.1600           | 1740       | 1460    | 91      | 1687               | 1513     | 45 | 26 | M24      | 48      | 5                    | 1598     | 1602     | 81       | 10           | 440     |
| 12 | 110.32.1800           | 1940       | 1660    | 91      | 1887               | 1713     | 45 | 26 | M24      | 48      | 5                    | 1798     | 1802     | 81       | 10           | 500     |
| 13 | 110.40.2000           | 2178       | 1825    | 112     | 2110               | 1891     | 48 | 33 | M30      | 60      | 8                    | 1997     | 2003     | 100      | 12           | 900     |
| 14 | 110.40.2240           | 2418       | 2065    | 112     | 2350               | 2131     | 48 | 33 | M30      | 60      | 8                    | 2237     | 2243     | 100      | 12           | 1000    |
| 15 | 110.40.2500           | 2678       | 2325    | 112     | 2610               | 2391     | 56 | 33 | M30      | 60      | 8                    | 2497     | 2503     | 100      | 12           | 1100    |
| 16 | 110.40.2800           | 2978       | 2625    | 112     | 2910               | 2691     | 56 | 33 | M30      | 60      | 8                    | 2797     | 2803     | 100      | 12           | 1250    |
| 17 | 110.50.3150           | 3376       | 2922    | 134     | 3286               | 3014     | 56 | 45 | M42      | 84      | 8                    | 3147     | 3153     | 122      | 12           | 2150    |
| 18 | 110.50.3550           | 3776       | 3322    | 134     | 3686               | 3414     | 56 | 45 | M42      | 84      | 8                    | 3547     | 3553     | 122      | 12           | 2470    |
| 19 | 110.50.4000           | 4226       | 3772    | 134     | 4136               | 3864     | 60 | 45 | M42      | 84      | 10                   | 3997     | 4003     | 122      | 12           | 2800    |
| 20 | 110.50.4500           | 4726       | 4272    | 134     | 4636               | 4364     | 60 | 45 | M42      | 84      | 10                   | 4497     | 4503     | 122      | 12           | 3100    |

### Note:

1. N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
4. The tangential tooth force in the form is the max. tooth force; the nominal tangential tooth force is 1/2 of the max one.
5. "K" is addendum reduction coefficient.

# Single Row Crossed Roller Bearing Internal Gear



The Single row crossed roller slewing bearing is composed of two seat rings, which design in compact structure and light weight, the clearance is small when assembly, so need high precision. The roller are 1:1 cross arranged, it can bear the axial force, tilting moment and relatively large radial force. It is widely used for hoisting, transportation, construction machinery, and the military products.

Type: Single Row Crossed Roller Bearing Internal Gear

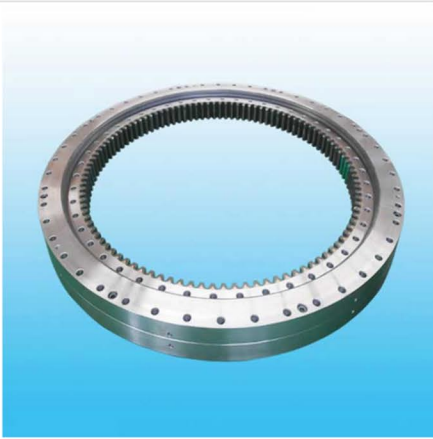
Wight/KG: 80-3100

| No | Internal gear |  | Dimensions |      |      | Mounting Dimension |       |      |       | Structural Dimension |       |       |       |       | Gear Data |      |     | Gear circumferential force |       | Weight kg |     |                    |                  |
|----|---------------|--|------------|------|------|--------------------|-------|------|-------|----------------------|-------|-------|-------|-------|-----------|------|-----|----------------------------|-------|-----------|-----|--------------------|------------------|
|    | DL mm         |  | D mm       | d mm | H mm | D1 mm              | D2 mm | n mm | dm mm | L mm                 | n1 mm | D3 mm | d1 mm | H1 mm | h mm      | b mm | x   | m mm                       | De mm |           | z   | Normalizing Z 104N | Quenching T 104N |
| 1  | 113.25.500    |  | 602        | 398  | 75   | 566                | 434   | 20   | 18    | M16                  | 32    | 4     | 498   | 502   | 65        | 10   | 60  | 0.5                        | 5     | 367       | 74  | 3.7                | 5.2              |
|    | 114.25.500    |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 6     | 368.4     | 62  | 4.5                | 6.2              |
| 2  | 113.25.560    |  | 662        | 458  | 75   | 626                | 494   | 20   | 18    | M16                  | 32    | 4     | 558   | 562   | 65        | 10   | 60  | 0.5                        | 5     | 427       | 86  | 3.7                | 5.2              |
|    | 114.25.560    |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 6     | 428.4     | 72  | 4.5                | 6.2              |
| 3  | 113.25.630    |  | 732        | 528  | 75   | 696                | 564   | 24   | 18    | M16                  | 32    | 4     | 628   | 632   | 65        | 10   | 60  | 0.5                        | 6     | 494.4     | 83  | 4.5                | 6.2              |
|    | 114.25.630    |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 8     | 491.2     | 62  | 6                  | 8.3              |
| 4  | 113.25.710    |  | 812        | 608  | 75   | 776                | 644   | 24   | 18    | M16                  | 32    | 4     | 708   | 712   | 65        | 10   | 60  | 0.5                        | 6     | 572.4     | 96  | 4.5                | 6.2              |
|    | 114.25.710    |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 8     | 571.2     | 72  | 6                  | 8.3              |
| 5  | 113.28.800    |  | 922        | 678  | 82   | 878                | 722   | 30   | 22    | M20                  | 40    | 6     | 798   | 802   | 72        | 10   | 65  | 0.5                        | 8     | 635.2     | 80  | 6.5                | 9.1              |
|    | 114.28.800    |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 10    | 634       | 64  | 8.1                | 11.4             |
| 6  | 113.28.900    |  | 1022       | 778  | 82   | 978                | 822   | 30   | 22    | M20                  | 40    | 6     | 898   | 902   | 72        | 10   | 65  | 0.5                        | 8     | 739.2     | 93  | 6.5                | 9.1              |
|    | 114.28.900    |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 10    | 734       | 74  | 8.1                | 11.4             |
| 7  | 113.28.1000   |  | 1122       | 878  | 82   | 1078               | 922   | 36   | 22    | M20                  | 40    | 6     | 998   | 1002  | 72        | 10   | 65  | 0.5                        | 10    | 824       | 83  | 8.1                | 11.4             |
|    | 114.28.1000   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 12    | 820.8     | 69  | 9.7                | 13.6             |
| 8  | 113.28.1120   |  | 1242       | 998  | 82   | 1198               | 1042  | 36   | 22    | M20                  | 40    | 6     | 1118  | 1122  | 72        | 10   | 65  | 0.5                        | 10    | 944       | 95  | 8.1                | 11.4             |
|    | 114.28.1120   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 12    | 940.8     | 79  | 9.7                | 13.6             |
| 9  | 113.32.1250   |  | 1390       | 1110 | 91   | 1337               | 1163  | 40   | 26    | M24                  | 48    | 5     | 1248  | 1252  | 81        | 10   | 75  | 0.5                        | 12    | 1048.8    | 88  | 11.3               | 15.7             |
|    | 114.32.1250   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 14    | 1041.6    | 75  | 13.2               | 18.2             |
| 10 | 113.32.1400   |  | 1540       | 1260 | 91   | 1487               | 1313  | 40   | 26    | M24                  | 48    | 5     | 1398  | 1402  | 81        | 10   | 75  | 0.5                        | 12    | 1192.8    | 100 | 11.3               | 15.7             |
|    | 114.32.1400   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 14    | 1195.6    | 86  | 13.2               | 18.2             |
| 11 | 113.32.1600   |  | 1740       | 1460 | 91   | 1687               | 1513  | 45   | 26    | M24                  | 48    | 5     | 1598  | 1602  | 81        | 10   | 75  | 0.5                        | 14    | 1391.6    | 100 | 13.2               | 18.2             |
|    | 114.32.1600   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 16    | 1382.4    | 87  | 15.1               | 22.4             |
| 12 | 113.32.1800   |  | 1940       | 1660 | 91   | 1887               | 1713  | 45   | 26    | M24                  | 48    | 5     | 1798  | 1802  | 81        | 10   | 75  | 0.5                        | 14    | 1573.6    | 113 | 13.2               | 18.2             |
|    | 114.32.1800   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 16    | 1574.4    | 99  | 15.1               | 22.4             |
| 13 | 113.40.2000   |  | 2178       | 1825 | 112  | 2110               | 1891  | 48   | 33    | M30                  | 60    | 8     | 1997  | 2003  | 100       | 12   | 90  | 0.5                        | 16    | 1734.4    | 109 | 18.1               | 25               |
|    | 114.40.2000   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 18    | 1735.2    | 97  | 20.3               | 28.1             |
| 14 | 113.40.2240   |  | 2418       | 2065 | 112  | 2350               | 2131  | 48   | 33    | M30                  | 60    | 8     | 2237  | 2243  | 100       | 12   | 90  | 0.5                        | 16    | 1990.4    | 125 | 18.1               | 25               |
|    | 114.40.2240   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 18    | 1987.2    | 111 | 20.3               | 28.1             |
| 15 | 113.40.2500   |  | 2678       | 2325 | 112  | 2610               | 2391  | 56   | 33    | M30                  | 60    | 8     | 2497  | 2503  | 100       | 12   | 90  | 0.5                        | 18    | 2239.2    | 125 | 20.3               | 28.1             |
|    | 114.40.2500   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 20    | 2228      | 112 | 22.6               | 31.3             |
| 16 | 113.40.2800   |  | 2978       | 2625 | 112  | 2910               | 2691  | 56   | 33    | M30                  | 60    | 8     | 2797  | 2803  | 100       | 12   | 90  | 0.5                        | 18    | 2527.2    | 141 | 20.3               | 28.1             |
|    | 114.40.2800   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 20    | 2528      | 127 | 22.6               | 31.3             |
| 17 | 113.50.3150   |  | 3376       | 2922 | 134  | 3286               | 3014  | 56   | 45    | M42                  | 84    | 8     | 3147  | 3153  | 122       | 12   | 110 | 0.5                        | 20    | 2828      | 142 | 27.6               | 38.3             |
|    | 114.50.3150   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 22    | 2824.8    | 129 | 30.4               | 42.1             |
| 18 | 113.50.3550   |  | 3776       | 3322 | 134  | 3686               | 3414  | 56   | 45    | M42                  | 84    | 8     | 3547  | 3553  | 122       | 12   | 110 | 0.5                        | 20    | 3228      | 162 | 30.4               | 38.3             |
|    | 114.50.3550   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 22    | 3220.8    | 147 | 30.4               | 42.1             |
| 19 | 113.50.4000   |  | 4226       | 3772 | 134  | 4136               | 3864  | 60   | 45    | M42                  | 84    | 10    | 3997  | 4003  | 122       | 12   | 110 | 0.5                        | 22    | 3660.8    | 167 | 30.4               | 42.1             |
|    | 114.50.4000   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 25    | 3660      | 147 | 34.5               | 47.8             |
| 20 | 113.50.4500   |  | 4726       | 4272 | 134  | 4636               | 4364  | 60   | 45    | M42                  | 84    | 10    | 4497  | 4503  | 122       | 12   | 110 | 0.5                        | 22    | 4166.8    | 190 | 30.4               | 42.1             |
|    | 114.50.4500   |  |            |      |      |                    |       |      |       |                      |       |       |       |       |           |      |     |                            | 25    | 4160      | 167 | 34.5               | 47.8             |

**Note:**

1. N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
4. The tangential tooth force in the form is the max tooth force, the nominal tangential tooth force is 1/2 of the max one.
5. "K" is addendum reduction coefficient.

# Double Row Ball Bearing Internal Gear



Double row ball slewing bearing has three seat ring, the steel ball and the spacing block can be directly arrange into the upper and lower races, two rows of upper and lower steel balls with differently diameter are fitted according to the stress condition.

This kind of open assembly is very convenient, for the upper and lower bear raceway arc angles is 90, which can bear large axial forces and tilting moment. When the radial force is greater than 0.1 times the axial force need to be specially designed the raceway.

Double row different ball slewing bearing's axial and radial size are relatively large and solid in structure, so it is specially for the medium diameter tower cranes, truck mounted cranes etc. loading and unloading machinery.

Wight/KG: 100-4700

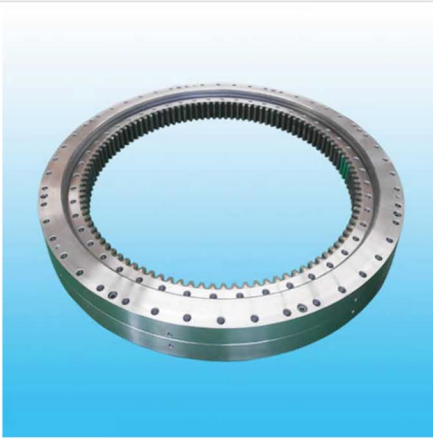
| No | Internal Gear<br>DL<br>mm | Dimensions |         |         | Mounting Dimension |          |    |    | Structural Dimension |          |         | Gear Data |          |         | Gear circumferential force |     | Weight<br>kg |                       |                     |
|----|---------------------------|------------|---------|---------|--------------------|----------|----|----|----------------------|----------|---------|-----------|----------|---------|----------------------------|-----|--------------|-----------------------|---------------------|
|    |                           | D<br>mm    | d<br>mm | H<br>mm | D1<br>mm           | D2<br>mm | n  | mm | n1<br>mm             | H1<br>mm | h<br>mm | b<br>mm   | $\alpha$ | m<br>mm | D e<br>mm                  | z   |              | Normalizing<br>Z 104N | Quenching<br>T 104N |
| 1  | 023.25.500                | 616        | 384     | 106     | 580                | 420      | 20 | 18 | 4                    | 96       | 26      | 60        | 0.5      | 5       | 257                        | 72  | 3.7          | 5.2                   | 100                 |
|    | 024.25.500                |            |         |         |                    |          |    |    |                      |          |         |           |          | 6       | 350.4                      | 59  | 4.5          | 6.2                   |                     |
| 2  | 023.25.560                | 676        | 444     | 106     | 640                | 480      | 20 | 18 | 4                    | 96       | 26      | 60        | 0.5      | 5       | 417                        | 84  | 3.7          | 5.2                   | 115                 |
|    | 024.25.560                |            |         |         |                    |          |    |    |                      |          |         |           |          | 6       | 410.4                      | 69  | 4.5          | 6.2                   |                     |
| 3  | 023.25.630                | 746        | 514     | 106     | 710                | 550      | 24 | 18 | 4                    | 96       | 26      | 60        | 0.5      | 6       | 482.4                      | 81  | 4.5          | 6.2                   | 130                 |
|    | 024.25.630                |            |         |         |                    |          |    |    |                      |          |         |           |          | 8       | 475.2                      | 60  | 6            | 8.3                   |                     |
| 4  | 023.25.710                | 826        | 594     | 106     | 790                | 630      | 24 | 18 | 4                    | 96       | 26      | 60        | 0.5      | 6       | 560.4                      | 94  | 4.5          | 6.2                   | 140                 |
|    | 024.25.710                |            |         |         |                    |          |    |    |                      |          |         |           |          | 8       | 555.2                      | 70  | 6            | 8.3                   |                     |
| 5  | 023.30.800                | 942        | 658     | 124     | 898                | 702      | 30 | 22 | 6                    | 114      | 29      | 80        | 0.5      | 8       | 619.2                      | 78  | 8            | 11.1                  | 200                 |
|    | 024.30.800                |            |         |         |                    |          |    |    |                      |          |         |           |          | 10      | 614                        | 62  | 10           | 14                    |                     |
| 6  | 023.30.900                | 1042       | 758     | 124     | 998                | 802      | 30 | 22 | 6                    | 114      | 29      | 80        | 0.5      | 8       | 715.2                      | 90  | 8            | 11.1                  | 250                 |
|    | 024.30.900                |            |         |         |                    |          |    |    |                      |          |         |           |          | 10      | 714                        | 72  | 10           | 14                    |                     |
| 7  | 023.30.1000               | 1142       | 858     | 124     | 1098               | 902      | 36 | 22 | 6                    | 114      | 29      | 80        | 0.5      | 10      | 814                        | 82  | 10           | 14                    | 300                 |
|    | 024.30.1000               |            |         |         |                    |          |    |    |                      |          |         |           |          | 12      | 796.8                      | 67  | 12           | 16.7                  |                     |
| 8  | 023.30.1120               | 1262       | 978     | 124     | 1218               | 1022     | 36 | 22 | 6                    | 114      | 29      | 80        | 0.5      | 10      | 924                        | 93  | 10           | 14                    | 340                 |
|    | 024.30.1120               |            |         |         |                    |          |    |    |                      |          |         |           |          | 12      | 916.8                      | 77  | 12           | 16.7                  |                     |
| 9  | 023.40.1250               | 1426       | 1074    | 160     | 1374               | 1126     | 40 | 26 | 5                    | 150      | 39      | 90        | 0.5      | 12      | 1012.8                     | 85  | 13.5         | 18.8                  | 580                 |
|    | 024.40.1250               |            |         |         |                    |          |    |    |                      |          |         |           |          | 14      | 1013.6                     | 73  | 15.8         | 21.9                  |                     |
| 10 | 023.40.1400               | 1576       | 1224    | 160     | 1524               | 1272     | 40 | 26 | 5                    | 150      | 39      | 90        | 0.5      | 12      | 1156.8                     | 97  | 13.5         | 18.8                  | 650                 |
|    | 024.40.1400               |            |         |         |                    |          |    |    |                      |          |         |           |          | 14      | 1153.6                     | 83  | 15.8         | 21.9                  |                     |
| 11 | 023.40.1600               | 1776       | 1424    | 160     | 1724               | 1476     | 45 | 26 | 5                    | 150      | 39      | 90        | 0.5      | 14      | 1349.6                     | 97  | 15.8         | 21.9                  | 750                 |
|    | 024.40.1600               |            |         |         |                    |          |    |    |                      |          |         |           |          | 16      | 1350.4                     | 85  | 18.1         | 25                    |                     |
| 12 | 023.40.1800               | 1976       | 1624    | 160     | 1924               | 1676     | 45 | 26 | 5                    | 150      | 39      | 90        | 0.5      | 14      | 1545.6                     | 111 | 15.8         | 21.9                  | 820                 |
|    | 024.40.1800               |            |         |         |                    |          |    |    |                      |          |         |           |          | 16      | 1542.4                     | 97  | 18.1         | 25                    |                     |
| 13 | 023.50.2000               | 2215       | 1785    | 190     | 2149               | 1851     | 48 | 33 | 8                    | 178      | 47      | 120       | 0.5      | 16      | 1702.4                     | 107 | 24.1         | 33.3                  | 1150                |
|    | 024.50.2000               |            |         |         |                    |          |    |    |                      |          |         |           |          | 18      | 1699.2                     | 95  | 27.1         | 37.5                  |                     |
| 14 | 023.50.2240               | 2455       | 2025    | 190     | 2389               | 2091     | 48 | 33 | 8                    | 178      | 47      | 120       | 0.5      | 16      | 1942.4                     | 122 | 24.1         | 33.3                  | 1500                |
|    | 024.50.2240               |            |         |         |                    |          |    |    |                      |          |         |           |          | 18      | 1933.2                     | 108 | 27.1         | 37.5                  |                     |
| 15 | 023.50.2500               | 2715       | 2285    | 190     | 2649               | 2351     | 56 | 33 | 8                    | 178      | 47      | 120       | 0.5      | 18      | 2203.2                     | 123 | 27.1         | 37.5                  | 1700                |
|    | 024.50.2500               |            |         |         |                    |          |    |    |                      |          |         |           |          | 20      | 2188                       | 110 | 30.1         | 41.8                  |                     |
| 16 | 023.50.2800               | 3015       | 2585    | 190     | 2949               | 2651     | 56 | 33 | 8                    | 178      | 47      | 120       | 0.5      | 18      | 2491.2                     | 139 | 27.1         | 37.5                  | 1900                |
|    | 024.50.2800               |            |         |         |                    |          |    |    |                      |          |         |           |          | 20      | 2488                       | 125 | 30.1         | 41.8                  |                     |
| 17 | 023.60.3150               | 3428       | 2872    | 226     | 3338               | 2962     | 56 | 45 | 8                    | 214      | 56      | 150       | 0.5      | 20      | 2768                       | 139 | 37.7         | 52.2                  | 3300                |
|    | 024.60.3150               |            |         |         |                    |          |    |    |                      |          |         |           |          | 22      | 2758.8                     | 126 | 41.5         | 57.4                  |                     |
| 18 | 023.60.3550               | 3828       | 3272    | 226     | 3738               | 3362     | 56 | 45 | 8                    | 214      | 56      | 150       | 0.5      | 20      | 3168                       | 159 | 37.7         | 52.2                  | 3700                |
|    | 024.60.3550               |            |         |         |                    |          |    |    |                      |          |         |           |          | 22      | 3176.8                     | 145 | 41.5         | 57.4                  |                     |
| 19 | 023.60.4000               | 4278       | 3722    | 226     | 4188               | 3812     | 60 | 45 | 10                   | 214      | 56      | 150       | 0.5      | 22      | 3616.8                     | 165 | 41.5         | 57.4                  | 4200                |
|    | 024.60.4000               |            |         |         |                    |          |    |    |                      |          |         |           |          | 25      | 3610                       | 145 | 47.1         | 65.2                  |                     |
| 20 | 023.60.4500               | 4778       | 4222    | 226     | 4688               | 4312     | 60 | 45 | 10                   | 214      | 56      | 150       | 0.5      | 22      | 4122.8                     | 188 | 41.5         | 57.4                  | 4700                |
|    | 024.60.4500               |            |         |         |                    |          |    |    |                      |          |         |           |          | 25      | 4110                       | 165 | 47.1         | 65.2                  |                     |

**Note:**

1. N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
4. The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
5. "K" is addendum reduction coefficient.



# Double Row Ball Bearing Internal Gear



Double row ball slewing bearing has three seat ring, the steel ball and the spacing block can be directly arrange into the upper and lower races, two rows of upper and lower steel balls with differently diameter are fitted according to the stress condition.

This kind of open assembly is very convenient, for the upper and lower bear raceway arc angles is 90, which can bear large axial forces and tilting moment. When the radial force is greater than 0.1 times the axial force need to be specially designed the raceway.

Double row different ball slewing bearing's axial and radial size are relatively large and solid in structure, so it is specially for the medium diameter tower cranes, truck mounted cranes etc. loading and unloading machinery.

Wight/KG:100-4700

| No | Internal Gear<br>DL<br>mm | Dimensions |         |         | Mounting Dimension |          |    |    | Structural Dimension |          |         |         | Gear Data |         |           | Gear circumferential force |                       | Weight<br>kg |                     |
|----|---------------------------|------------|---------|---------|--------------------|----------|----|----|----------------------|----------|---------|---------|-----------|---------|-----------|----------------------------|-----------------------|--------------|---------------------|
|    |                           | D<br>mm    | d<br>mm | H<br>mm | D1<br>mm           | D2<br>mm | n  | mm | n1<br>mm             | H1<br>mm | h<br>mm | b<br>mm | x         | m<br>mm | D e<br>mm | z                          | Normalizing<br>Z 104N |              | Quenching<br>T 104N |
| 1  | 023.25.500                | 616        | 384     | 106     | 580                | 420      | 20 | 18 | 4                    | 96       | 26      | 60      | 0.5       | 5       | 257       | 72                         | 3.7                   | 5.2          | 100                 |
|    | 6                         |            |         |         |                    |          |    |    |                      |          |         |         |           | 350.4   | 59        | 4.5                        | 6.2                   |              |                     |
| 2  | 023.25.560                | 676        | 444     | 106     | 640                | 480      | 20 | 18 | 4                    | 96       | 26      | 60      | 0.5       | 5       | 417       | 84                         | 3.7                   | 5.2          | 115                 |
|    | 6                         |            |         |         |                    |          |    |    |                      |          |         |         |           | 410.4   | 69        | 4.5                        | 6.2                   |              |                     |
| 3  | 023.25.630                | 746        | 514     | 106     | 710                | 550      | 24 | 18 | 4                    | 96       | 26      | 60      | 0.5       | 6       | 482.4     | 81                         | 4.5                   | 6.2          | 130                 |
|    | 8                         |            |         |         |                    |          |    |    |                      |          |         |         |           | 475.2   | 60        | 6                          | 8.3                   |              |                     |
| 4  | 023.25.710                | 826        | 594     | 106     | 790                | 630      | 24 | 18 | 4                    | 96       | 26      | 60      | 0.5       | 6       | 560.4     | 94                         | 4.5                   | 6.2          | 140                 |
|    | 8                         |            |         |         |                    |          |    |    |                      |          |         |         |           | 555.2   | 70        | 6                          | 8.3                   |              |                     |
| 5  | 023.30.800                | 942        | 658     | 124     | 898                | 702      | 30 | 22 | 6                    | 114      | 29      | 80      | 0.5       | 8       | 619.2     | 78                         | 8                     | 11.1         | 200                 |
|    | 10                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 614     | 62        | 10                         | 14                    |              |                     |
| 6  | 023.30.900                | 1042       | 758     | 124     | 998                | 802      | 30 | 22 | 6                    | 114      | 29      | 80      | 0.5       | 8       | 715.2     | 90                         | 8                     | 11.1         | 250                 |
|    | 10                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 714     | 72        | 10                         | 14                    |              |                     |
| 7  | 023.30.1000               | 1142       | 858     | 124     | 1098               | 902      | 36 | 22 | 6                    | 114      | 29      | 80      | 0.5       | 10      | 814       | 82                         | 10                    | 14           | 300                 |
|    | 12                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 796.8   | 67        | 12                         | 16.7                  |              |                     |
| 8  | 023.30.1120               | 1262       | 978     | 124     | 1218               | 1022     | 36 | 22 | 6                    | 114      | 29      | 80      | 0.5       | 10      | 924       | 93                         | 10                    | 14           | 340                 |
|    | 12                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 916.8   | 77        | 12                         | 16.7                  |              |                     |
| 9  | 023.40.1250               | 1426       | 1074    | 160     | 1374               | 1126     | 40 | 26 | 5                    | 150      | 39      | 90      | 0.5       | 12      | 1012.8    | 85                         | 13.5                  | 18.8         | 580                 |
|    | 14                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 1013.6  | 73        | 15.8                       | 21.9                  |              |                     |
| 10 | 023.40.1400               | 1576       | 1224    | 160     | 1524               | 1272     | 40 | 26 | 5                    | 150      | 39      | 90      | 0.5       | 12      | 1156.8    | 97                         | 13.5                  | 18.8         | 650                 |
|    | 14                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 1153.6  | 83        | 15.8                       | 21.9                  |              |                     |
| 11 | 023.40.1600               | 1776       | 1424    | 160     | 1724               | 1476     | 45 | 26 | 5                    | 150      | 39      | 90      | 0.5       | 14      | 1349.6    | 97                         | 15.8                  | 21.9         | 750                 |
|    | 16                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 1350.4  | 85        | 18.1                       | 25                    |              |                     |
| 12 | 023.40.1800               | 1976       | 1624    | 160     | 1924               | 1676     | 45 | 26 | 5                    | 150      | 39      | 90      | 0.5       | 14      | 1545.6    | 111                        | 15.8                  | 21.9         | 820                 |
|    | 16                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 1542.4  | 97        | 18.1                       | 25                    |              |                     |
| 13 | 023.50.2000               | 2215       | 1785    | 190     | 2149               | 1851     | 48 | 33 | 8                    | 178      | 47      | 120     | 0.5       | 16      | 1702.4    | 107                        | 24.1                  | 33.3         | 1150                |
|    | 18                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 1699.2  | 95        | 27.1                       | 37.5                  |              |                     |
| 14 | 023.50.2240               | 2455       | 2025    | 190     | 2389               | 2091     | 48 | 33 | 8                    | 178      | 47      | 120     | 0.5       | 16      | 1942.4    | 122                        | 24.1                  | 33.3         | 1500                |
|    | 18                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 1933.2  | 108       | 27.1                       | 37.5                  |              |                     |
| 15 | 023.50.2500               | 2715       | 2285    | 190     | 2649               | 2351     | 56 | 33 | 8                    | 178      | 47      | 120     | 0.5       | 18      | 2203.2    | 123                        | 27.1                  | 37.5         | 1700                |
|    | 20                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 2188    | 110       | 30.1                       | 41.8                  |              |                     |
| 16 | 023.50.2800               | 3015       | 2585    | 190     | 2949               | 2651     | 56 | 33 | 8                    | 178      | 47      | 120     | 0.5       | 18      | 2491.2    | 139                        | 27.1                  | 37.5         | 1900                |
|    | 20                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 2488    | 125       | 30.1                       | 41.8                  |              |                     |
| 17 | 023.60.3150               | 3428       | 2872    | 226     | 3338               | 2962     | 56 | 45 | 8                    | 214      | 56      | 150     | 0.5       | 20      | 2768      | 139                        | 37.7                  | 52.2         | 3300                |
|    | 22                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 2758.8  | 126       | 41.5                       | 57.4                  |              |                     |
| 18 | 023.60.3550               | 3828       | 3272    | 226     | 3738               | 3362     | 56 | 45 | 8                    | 214      | 56      | 150     | 0.5       | 20      | 3168      | 159                        | 37.7                  | 52.2         | 3700                |
|    | 22                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 3176.8  | 145       | 41.5                       | 57.4                  |              |                     |
| 19 | 023.60.4000               | 4278       | 3722    | 226     | 4188               | 3812     | 60 | 45 | 10                   | 214      | 56      | 150     | 0.5       | 22      | 3616.8    | 165                        | 41.5                  | 57.4         | 4200                |
|    | 25                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 3610    | 145       | 47.1                       | 65.2                  |              |                     |
| 20 | 023.60.4500               | 4778       | 4222    | 226     | 4688               | 4312     | 60 | 45 | 10                   | 214      | 56      | 150     | 0.5       | 22      | 4122.8    | 188                        | 41.5                  | 57.4         | 4700                |
|    | 25                        |            |         |         |                    |          |    |    |                      |          |         |         |           | 4110    | 165       | 47.1                       | 65.2                  |              |                     |

## Note:

1. N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
4. The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
5. "K" is addendum reduction coefficient.

## Double Row Ball Bearing Without Gear



Double row ball slewing bearing has three seat ring, the steel ball and the spacing block can be directly arrange into the upper and lower races, two rows of upper and lower steel balls with differently diameter are fitted according to the stress condition.

This kind of open assembly is very convenient, for the upper and lower bear raceway arc angles is 90, which can bear large axial forces and tilting moment. When the radial force is greater than 0.1 times the axial force need to be specially designed the raceway.

Double row different ball slewing bearing's axial and radial size are relatively large and solid in structure, so it is specially for the medium diameter tower cranes, truck mounted cranes etc. loading and unloading machinery.

Wight/KG: 100-4700

| No | Non Gear<br>DL<br>mm | Dimensions mm |         |         | Mounting Dimension |          |    |    | Structural Dimension |          |         | Weight<br>kg |
|----|----------------------|---------------|---------|---------|--------------------|----------|----|----|----------------------|----------|---------|--------------|
|    |                      | D<br>mm       | d<br>mm | H<br>mm | D1<br>mm           | D2<br>mm | n  | mm | n1<br>mm             | H1<br>mm | h<br>mm |              |
| 1  | 020.25.500           | 616           | 384     | 106     | 580                | 420      | 20 | 18 | 4                    | 96       | 26      | 100          |
| 2  | 020.25.560           | 676           | 444     | 106     | 640                | 480      | 20 | 18 | 4                    | 96       | 26      | 115          |
| 3  | 020.25.630           | 746           | 514     | 106     | 710                | 550      | 24 | 18 | 4                    | 96       | 26      | 130          |
| 4  | 020.25.710           | 826           | 594     | 106     | 790                | 630      | 24 | 18 | 4                    | 96       | 26      | 140          |
| 5  | 020.30.800           | 942           | 658     | 124     | 898                | 702      | 30 | 22 | 6                    | 114      | 29      | 200          |
| 6  | 020.30.900           | 1042          | 758     | 124     | 998                | 802      | 30 | 22 | 6                    | 114      | 29      | 250          |
| 7  | 020.30.1000          | 1142          | 858     | 124     | 1098               | 902      | 36 | 22 | 6                    | 114      | 29      | 300          |
| 8  | 020.30.1120          | 1262          | 978     | 124     | 1218               | 1022     | 36 | 22 | 6                    | 114      | 29      | 340          |
| 9  | 020.40.1250          | 1426          | 1074    | 160     | 1374               | 1126     | 40 | 26 | 5                    | 150      | 39      | 580          |
| 10 | 020.40.1400          | 1576          | 1224    | 160     | 1524               | 1272     | 40 | 26 | 5                    | 150      | 39      | 650          |
| 11 | 020.40.1600          | 1776          | 1424    | 160     | 1724               | 1476     | 45 | 26 | 5                    | 150      | 39      | 750          |
| 12 | 020.40.1800          | 1976          | 1624    | 160     | 1924               | 1676     | 45 | 26 | 5                    | 150      | 39      | 820          |
| 13 | 020.50.2000          | 2215          | 1785    | 190     | 2149               | 1851     | 48 | 33 | 8                    | 178      | 47      | 1150         |
| 14 | 020.50.2240          | 2455          | 2025    | 190     | 2389               | 2091     | 48 | 33 | 8                    | 178      | 47      | 1500         |
| 15 | 020.50.2500          | 2715          | 2285    | 190     | 2649               | 2351     | 56 | 33 | 8                    | 178      | 47      | 1700         |
| 16 | 020.50.2800          | 3015          | 2585    | 190     | 2949               | 2651     | 56 | 33 | 8                    | 178      | 47      | 1900         |
| 17 | 020.60.3150          | 3428          | 2872    | 226     | 3338               | 2962     | 56 | 45 | 8                    | 214      | 56      | 3300         |
| 18 | 020.60.3550          | 3828          | 3272    | 226     | 3738               | 3362     | 56 | 45 | 8                    | 214      | 56      | 3700         |
| 19 | 020.60.4000          | 4278          | 3722    | 226     | 4188               | 3812     | 60 | 45 | 10                   | 214      | 56      | 4200         |
| 20 | 020.60.4500          | 4778          | 4222    | 226     | 4688               | 4312     | 60 | 45 | 10                   | 214      | 56      | 4700         |

### Note:

1. N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
4. The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
5. "K" is addendum reduction coefficient.

## Double Row Ball Slewing Bearing (H-07) External Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly

Type: **H071**

Weight/KG: 80-240

Strengths: The Oil nipple's location can be change according to the user's application.

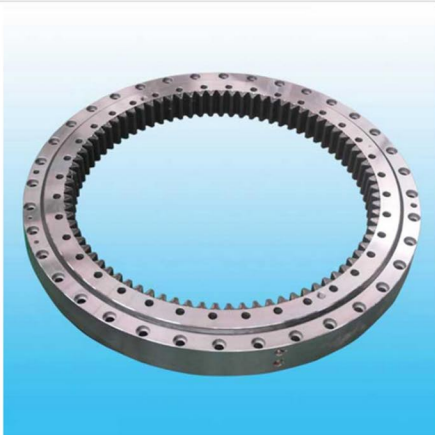
Application:

1. food machinery,
2. canning machinery
3. environmental machinery etc.

| Model              | Dimensions ( mm ) |      |      |     |    |    |    | Mounting dimension ( mm ) |    |    |      |    |    |
|--------------------|-------------------|------|------|-----|----|----|----|---------------------------|----|----|------|----|----|
|                    | Da                | O    | U    | Di  | Ha | Hb | H  | La                        | na | da | Li   | ni | di |
| <b>H071.22.372</b> | 504               | 466  | 374  | 278 | 75 | 87 | 95 | 430                       | 16 | 18 | 314  | 16 | 18 |
| <b>H071.22.476</b> | 608               | 570  | 478  | 382 | 75 | 87 | 95 | 534                       | 24 | 18 | 418  | 24 | 18 |
| <b>H071.22.580</b> | 712               | 674  | 582  | 486 | 76 | 88 | 98 | 638                       | 24 | 18 | 522  | 24 | 18 |
| <b>H071.22.948</b> | 1080              | 1042 | 950  | 854 | 76 | 88 | 98 | 1006                      | 30 | 18 | 890  | 30 | 18 |
| <b>H071.221064</b> | 1200              | 1162 | 1066 | 966 | 78 | 88 | 98 | 1124                      | 36 | 20 | 1004 | 36 | 20 |

| Model              | Gear Data |        |              | Gear force( KN) |     | Weight |
|--------------------|-----------|--------|--------------|-----------------|-----|--------|
|                    | P(mm)     | Module | Z(teeth no.) | Allowed         | Max | Kg     |
| <b>H071.22.372</b> | 488       | 8      | 61           | 31              | 62  | 80     |
| <b>H071.22.476</b> | 592       | 8      | 74           | 31              | 62  | 100    |
| <b>H071.22.580</b> | 696       | 8      | 87           | 32              | 64  | 126    |
| <b>H071.22.948</b> | 1064      | 8      | 133          | 32              | 64  | 208    |
| <b>H071.221064</b> | 1184      | 8      | 148          | 33              | 66  | 240    |

## Double Row Ball Slewing Bearing (H-07) Internal Gear



Double row ball slewing bearing, slewing ring has three seat rings, the steel ball and spacers can be directly arranged into the upper and lower race, and the steel ball has two different size.

Double row different ball slewing bearing, slewing ring's axial and radial loads are relatively large, it is specially suitable for the medium diameter tower cranes, truck mounted cranes etc.

| Model               | Dimensions ( mm ) |      |      |        |    |     |     | Mounting dimension (mm) |    |    |      |    |    |
|---------------------|-------------------|------|------|--------|----|-----|-----|-------------------------|----|----|------|----|----|
|                     | Da                | O    | U    | Di     | Ha | Hb  | H   | La                      | na | da | Li   | ni | di |
| <b>H073.22.0196</b> | 1010              | 822  | 918  | 786    | 80 | 88  | 98  | 974                     | 36 | 18 | 858  | 36 | 18 |
| <b>H073.25.1105</b> | 1202              | 1008 | 1115 | 962    | 88 | 98  | 110 | 1166                    | 36 | 18 | 1044 | 36 | 18 |
| <b>H073.30.1220</b> | 1332              | 1108 | 1222 | 1062   | 98 | 110 | 120 | 1290                    | 48 | 22 | 1150 | 48 | 22 |
| <b>H073.30.1593</b> | 1713              | 1473 | 1595 | 1418.4 | 98 | 110 | 120 | 1667                    | 48 | 26 | 1519 | 48 | 26 |

| Model               | Gear Data |        |              | Gear force( KN) |       | Weight |
|---------------------|-----------|--------|--------------|-----------------|-------|--------|
|                     | P(mm)     | Module | Z(teeth no.) | Allowed         | Max   | Kg     |
| <b>H073.22.0196</b> | 800       | 8      | 100          | 36.2            | 72.4  | 194    |
| <b>H073.25.1105</b> | 980       | 10     | 98           | 45              | 90    | 297    |
| <b>H073.30.1220</b> | 1080      | 10     | 108          | 68.9            | 137.8 | 387    |
| <b>H073.30.1593</b> | 1440      | 12     | 120          | 92              | 184   | 549    |

## Three Row Roller Bearing External Gear



The three row roller slewing bearing has three seat rings, which separate the upper, lower and radial raceways, it made each row of the roller's load capacity can be specified and can bear different loads simultaneously. The capacity load is the largest one compare with the other three models. Due to the large size in axial and radial dimension the solid structure, it is specially suitable for the heavy duty machinery such as wheeled excavator, wheeled crane, ship crane, ladle turrets and the heavy duty mobile crane etc.

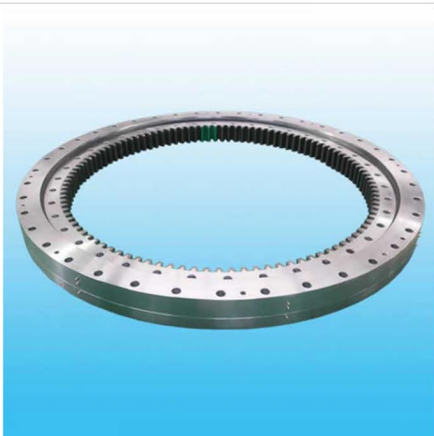
Wight/KG 224-7320

| No. | External Gear |    | Dimensions |      |      | Mounting Dimension |       |      |       | Structural Dimension |       |       | Gear Data |      |      |      | Gear circumferential force |        | Weight kg |                    |                  |      |
|-----|---------------|----|------------|------|------|--------------------|-------|------|-------|----------------------|-------|-------|-----------|------|------|------|----------------------------|--------|-----------|--------------------|------------------|------|
|     | DL mm         |    | D mm       | d mm | H mm | D1 mm              | D2 mm | n mm | dm mm | L mm                 | n1 mm | H1 mm | h mm      | b mm | x mm | m mm | De mm                      | z      |           | Normalizing Z 104N | Quenching T 104N |      |
| 1   | 131.25.500    |    | 634        | 366  | 148  | 598                | 402   | 24   | 18    | M16                  | 32    | 4     | 10        | 32   | 80   | 0.5  | 5                          | 664    | 130       | 5.0                | 6.7              | 224  |
|     | 132.25.500    | 6  |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 664.8                      | 108    |           |                    |                  |      |
| 2   | 131.25.560    |    | 694        | 426  | 148  | 658                | 462   | 24   | 18    | M16                  | 32    | 4     | 10        | 32   | 80   | 0.5  | 5                          | 724    | 142       | 5.0                | 6.7              | 240  |
|     | 132.25.560    | 6  |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 724.8                      | 118    |           |                    |                  |      |
| 3   | 131.25.630    |    | 764        | 496  | 148  | 728                | 532   | 28   | 18    | M16                  | 32    | 4     | 10        | 32   | 80   | 0.5  | 6                          | 808.8  | 132       | 6.0                | 8                | 270  |
|     | 132.25.630    | 8  |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 806.4                      | 98     |           |                    |                  |      |
| 4   | 131.25.710    |    | 844        | 576  | 148  | 808                | 612   | 28   | 18    | M16                  | 32    | 4     | 10        | 32   | 80   | 0.5  | 6                          | 886.8  | 145       | 6.0                | 8                | 300  |
|     | 132.25.710    | 8  |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 886.4                      | 108    |           |                    |                  |      |
| 5   | 131.32.800    |    | 964        | 636  | 182  | 920                | 680   | 36   | 22    | M20                  | 40    | 4     | 10        | 40   | 120  | 0.5  | 8                          | 1006.4 | 123       | 12.1               | 16.7             | 500  |
|     | 132.32.800    | 10 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 1008                       | 98     |           |                    |                  |      |
| 6   | 131.32.900    |    | 1064       | 736  | 182  | 1020               | 780   | 36   | 22    | M20                  | 40    | 4     | 10        | 40   | 120  | 0.5  | 8                          | 1102.4 | 135       | 12.1               | 16.7             | 600  |
|     | 132.32.900    | 10 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 1108                       | 108    |           |                    |                  |      |
| 7   | 131.32.1000   |    | 1164       | 836  | 182  | 1120               | 880   | 40   | 22    | M20                  | 40    | 5     | 10        | 40   | 120  | 0.5  | 10                         | 1218   | 119       | 15.1               | 20.9             | 680  |
|     | 132.32.1000   | 12 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 1221.6                     | 99     |           |                    |                  |      |
| 8   | 131.32.1120   |    | 1284       | 956  | 182  | 1240               | 1000  | 40   | 22    | M20                  | 40    | 5     | 10        | 40   | 120  | 0.5  | 10                         | 1338   | 131       | 15.1               | 20.9             | 820  |
|     | 132.32.1120   | 12 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 1341.6                     | 109    |           |                    |                  |      |
| 9   | 131.40.1250   |    | 1445       | 1055 | 220  | 1393               | 1107  | 45   | 26    | M24                  | 48    | 5     | 10        | 50   | 150  | 0.5  | 12                         | 1509.6 | 123       | 22.9               | 31.4             | 1200 |
|     | 132.40.1250   | 14 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 1509.2                     | 105    |           |                    |                  |      |
| 10  | 131.40.1400   |    | 1595       | 1205 | 220  | 1543               | 1257  | 45   | 26    | M24                  | 48    | 5     | 10        | 50   | 150  | 0.5  | 12                         | 1665.6 | 136       | 22.9               | 31.4             | 1300 |
|     | 132.40.1400   | 14 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 1663.2                     | 116    |           |                    |                  |      |
| 11  | 131.40.1600   |    | 1795       | 1405 | 220  | 1743               | 1457  | 48   | 26    | M24                  | 48    | 6     | 10        | 50   | 150  | 0.5  | 14                         | 1873.2 | 131       | 26.3               | 36.6             | 1520 |
|     | 132.40.1600   | 16 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 1868.8                     | 114    |           |                    |                  |      |
| 12  | 131.40.1800   |    | 1995       | 1605 | 220  | 1943               | 1657  | 48   | 26    | M24                  | 48    | 6     | 10        | 50   | 150  | 0.5  | 14                         | 2069.2 | 145       | 26.3               | 36.6             | 1750 |
|     | 132.40.1800   | 16 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 2076.8                     | 127    |           |                    |                  |      |
| 13  | 131.45.2000   |    | 2221       | 1779 | 231  | 2155               | 1845  | 60   | 33    | M30                  | 60    | 6     | 12        | 54   | 160  | 0.5  | 16                         | 2300.8 | 141       | 32.2               | 44.5             | 2400 |
|     | 132.45.2000   | 18 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 2300.4                     | 125    |           |                    |                  |      |
| 14  | 131.45.2240   |    | 2461       | 2019 | 231  | 2395               | 2085  | 60   | 33    | M30                  | 60    | 6     | 12        | 54   | 160  | 0.5  | 16                         | 2556.8 | 157       | 32.2               | 44.5             | 2700 |
|     | 132.45.2240   | 18 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 2552.4                     | 139    |           |                    |                  |      |
| 15  | 131.45.2500   |    | 2721       | 2279 | 231  | 2655               | 2345  | 72   | 33    | M30                  | 60    | 8     | 12        | 54   | 160  | 0.5  | 18                         | 2822.4 | 154       | 36.2               | 50.1             | 3000 |
|     | 132.45.2500   | 20 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 2816                       | 138    |           |                    |                  |      |
| 16  | 131.45.2800   |    | 3021       | 2579 | 231  | 2955               | 2645  | 72   | 33    | M30                  | 60    | 8     | 12        | 54   | 160  | 0.5  | 18                         | 3110.4 | 170       | 36.2               | 50.1             | 3400 |
|     | 132.45.2800   | 20 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 3116                       | 153    |           |                    |                  |      |
| 17  | 131.50.3150   |    | 3432       | 2868 | 270  | 3342               | 2958  | 72   | 45    | M42                  | 84    | 8     | 12        | 65   | 180  | 0.5  | 20                         | 3536   | 174       | 45.2               | 62.6             | 5000 |
|     | 132.50.3150   | 22 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 3537.6                     | 158    |           |                    |                  |      |
| 18  | 131.50.3550   |    | 3832       | 3268 | 270  | 3742               | 3358  | 72   | 45    | M42                  | 84    | 8     | 258       | 65   | 180  | 0.5  | 20                         | 3936   | 194       | 45.2               | 62.6             | 5680 |
|     | 132.50.3550   | 22 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 3933.6                     | 176    |           |                    |                  |      |
| 19  | 131.50.4000   |    | 4282       | 3718 | 270  | 4192               | 3808  | 80   | 45    | M42                  | 84    | 8     | 258       | 65   | 180  | 0.5  | 22                         | 4395.6 | 197       | 49.8               | 68.9             | 6470 |
|     | 132.50.4000   | 25 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 4395                       | 173    |           |                    |                  |      |
| 20  | 131.50.4500   |    | 4782       | 4218 | 270  | 4692               | 4308  | 80   | 45    | M42                  | 84    | 8     | 258       | 65   | 180  | 0.5  | 22                         | 4901.6 | 220       | 49.8               | 68.9             | 7320 |
|     | 132.50.4500   | 25 |            |      |      |                    |       |      |       |                      |       |       |           |      |      |      | 4895                       | 193    |           |                    |                  |      |

### Note:

- n1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
- The Oil nipple's location can be change according to the user's application.
- n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
- The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
- "K" is addendum reduction coefficient.

## Three Row Roller Bearing Internal Gear



The three row roller slewing bearing has three seat rings, which separate the upper, lower and radial raceways, it made each row of the roller's load capacity can be specified and can bear different loads simultaneously. The capacity load is the largest one compare with the other three models. Due to the large size in axial and radial dimension the solid structure, it is specially suitable for the heavy duty machinery such as wheeled excavator, wheeled crane, ship crane, ladle turrets and the heavy duty mobile crane etc.

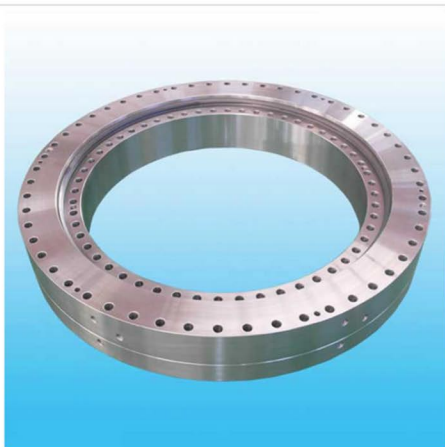
Wight/KG:224-7320

| No | Internal Gear<br>DL<br>mm | Dimensions |         |         | Mounting Dimension |          |         |          | Structural Dimension |          |          |         | Gear Data |         |         |           | Gear circumferential force |                       | Weight<br>kg |                     |      |
|----|---------------------------|------------|---------|---------|--------------------|----------|---------|----------|----------------------|----------|----------|---------|-----------|---------|---------|-----------|----------------------------|-----------------------|--------------|---------------------|------|
|    |                           | D<br>mm    | d<br>mm | H<br>mm | D1<br>mm           | D2<br>mm | n<br>mm | dm<br>mm | L<br>mm              | n1<br>mm | H1<br>mm | h<br>mm | b<br>mm   | x<br>mm | m<br>mm | D e<br>mm | z                          | Normalizing<br>Z 104N |              | Quenching<br>T 104N |      |
| 1  | 133.25.500                | 634        | 366     | 148     | 598                | 402      | 24      | 18       | M16                  | 32       | 4        | 10      | 32        | 80      | 0.5     | 5         | 337                        | 68                    | 5.0          | 6.7                 | 224  |
|    | 6                         |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 338.4     | 57                         |                       |              |                     |      |
| 2  | 133.25.560                | 694        | 426     | 148     | 658                | 462      | 24      | 18       | M16                  | 32       | 4        | 10      | 32        | 80      | 0.5     | 5         | 397                        | 80                    | 5.0          | 6.7                 | 240  |
|    | 6                         |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 398.4     | 67                         |                       |              |                     |      |
| 3  | 133.25.630                | 764        | 496     | 148     | 728                | 532      | 28      | 18       | M16                  | 32       | 4        | 10      | 32        | 80      | 0.5     | 6         | 458.4                      | 77                    | 6.0          | 8                   | 270  |
|    | 8                         |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 459.2     | 58                         |                       |              |                     |      |
| 4  | 133.25.710                | 844        | 576     | 148     | 808                | 612      | 28      | 18       | M16                  | 32       | 4        | 10      | 32        | 80      | 0.5     | 6         | 536.4                      | 90                    | 6.0          | 8                   | 300  |
|    | 8                         |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 539.2     | 68                         |                       |              |                     |      |
| 5  | 133.32.800                | 964        | 636     | 182     | 920                | 680      | 36      | 22       | M20                  | 40       | 4        | 10      | 40        | 120     | 0.5     | 8         | 595.2                      | 75                    | 12.1         | 16.7                | 500  |
|    | 10                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 594       | 60                         |                       |              |                     |      |
| 6  | 133.32.900                | 1064       | 736     | 182     | 1020               | 780      | 36      | 22       | M20                  | 40       | 4        | 10      | 40        | 120     | 0.5     | 8         | 691.2                      | 87                    | 12.1         | 16.7                | 600  |
|    | 10                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 694       | 70                         |                       |              |                     |      |
| 7  | 133.32.1000               | 1164       | 836     | 182     | 1120               | 880      | 40      | 22       | M20                  | 40       | 5        | 10      | 40        | 120     | 0.5     | 10        | 784                        | 79                    | 15.1         | 20.9                | 680  |
|    | 12                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 784.8     | 66                         |                       |              |                     |      |
| 8  | 133.32.1120               | 1284       | 956     | 182     | 1240               | 1000     | 40      | 22       | M20                  | 40       | 5        | 10      | 40        | 120     | 0.5     | 10        | 904                        | 91                    | 15.1         | 20.9                | 820  |
|    | 12                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 904.8     | 76                         |                       |              |                     |      |
| 9  | 133.40.1250               | 1445       | 1055    | 220     | 1393               | 1107     | 45      | 26       | M24                  | 48       | 5        | 10      | 50        | 150     | 0.5     | 12        | 988.8                      | 83                    | 22.9         | 31.4                | 1200 |
|    | 14                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 985.6     | 71                         |                       |              |                     |      |
| 10 | 133.40.1400               | 1595       | 1205    | 220     | 1543               | 1257     | 45      | 26       | M24                  | 48       | 5        | 10      | 50        | 150     | 0.5     | 12        | 1144.8                     | 96                    | 22.9         | 31.4                | 1300 |
|    | 14                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 1139.6    | 82                         |                       |              |                     |      |
| 11 | 133.40.1600               | 1795       | 1405    | 220     | 1743               | 1457     | 48      | 26       | M24                  | 48       | 6        | 10      | 50        | 150     | 0.5     | 14        | 1335.6                     | 96                    | 26.3         | 36.6                | 1520 |
|    | 16                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 1334.4    | 84                         |                       |              |                     |      |
| 12 | 133.40.1800               | 1995       | 1605    | 220     | 1943               | 1657     | 48      | 26       | M24                  | 48       | 6        | 10      | 50        | 150     | 0.5     | 14        | 1531.6                     | 110                   | 26.3         | 36.6                | 1750 |
|    | 16                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 1526.4    | 96                         |                       |              |                     |      |
| 13 | 133.45.2000               | 2221       | 1779    | 231     | 2155               | 1845     | 60      | 33       | M30                  | 60       | 6        | 12      | 54        | 160     | 0.5     | 16        | 1702.4                     | 107                   | 32.2         | 44.5                | 2400 |
|    | 18                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 1699.2    | 95                         |                       |              |                     |      |
| 14 | 133.45.2240               | 2461       | 2019    | 231     | 2395               | 2085     | 60      | 33       | M30                  | 60       | 6        | 12      | 54        | 160     | 0.5     | 16        | 1926.4                     | 121                   | 32.2         | 44.5                | 2700 |
|    | 18                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 1933.2    | 108                        |                       |              |                     |      |
| 15 | 133.45.2500               | 2721       | 2279    | 231     | 2655               | 2345     | 72      | 33       | M30                  | 60       | 8        | 12      | 54        | 160     | 0.5     | 18        | 2185.2                     | 122                   | 36.2         | 50.1                | 3000 |
|    | 20                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 2188      | 110                        |                       |              |                     |      |
| 16 | 133.45.2800               | 3021       | 2579    | 231     | 2955               | 2645     | 72      | 33       | M30                  | 60       | 8        | 12      | 54        | 160     | 0.5     | 18        | 2491.2                     | 139                   | 36.2         | 50.1                | 3400 |
|    | 20                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 2488      | 125                        |                       |              |                     |      |
| 17 | 133.50.3150               | 3432       | 2868    | 270     | 3342               | 2958     | 72      | 45       | M42                  | 84       | 8        | 12      | 65        | 180     | 0.5     | 20        | 2768                       | 139                   | 45.2         | 62.6                | 5000 |
|    | 22                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 2758.8    | 126                        |                       |              |                     |      |
| 18 | 133.50.3550               | 3832       | 3268    | 270     | 3742               | 3358     | 72      | 45       | M42                  | 84       | 8        | 258     | 65        | 180     | 0.5     | 20        | 3168                       | 159                   | 45.2         | 62.6                | 5680 |
|    | 22                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 3154.8    | 144                        |                       |              |                     |      |
| 19 | 133.50.4000               | 4282       | 3718    | 270     | 4192               | 3808     | 80      | 45       | M42                  | 84       | 8        | 258     | 65        | 180     | 0.5     | 22        | 3116.8                     | 165                   | 49.8         | 68.9                | 6470 |
|    | 25                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 3610      | 145                        |                       |              |                     |      |
| 20 | 133.50.4500               | 4782       | 4218    | 270     | 4692               | 4308     | 80      | 45       | M42                  | 84       | 8        | 258     | 65        | 180     | 0.5     | 22        | 4122.8                     | 188                   | 49.8         | 68.9                | 7320 |
|    | 25                        |            |         |         |                    |          |         |          |                      |          |          |         |           |         |         | 4110      | 165                        |                       |              |                     |      |

### Note:

1. N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
2. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
3. The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
4. "K" is addendum reduction coefficient.

## Three Row Roller Bearing Without Gear



The three row roller slewing bearing has three seat rings, which separate the upper, lower and radial raceways, it made each row of the roller's load capacity can be specified and can bear different loads simultaneously. The capacity load is the largest one compare with the other three models. Due to the large size in axial and radial dimension the solid structure, it is specially suitable for the heavy duty machinery such as wheeled excavator, wheeled crane, ship crane, ladle turrets and the heavy duty mobile crane etc.

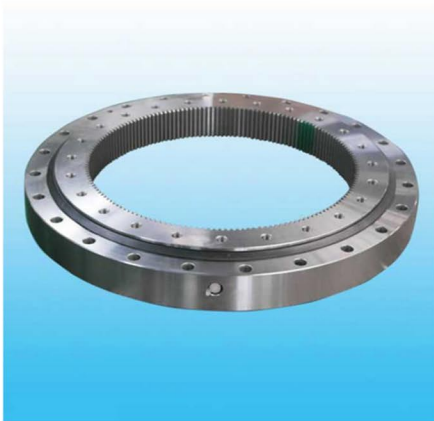
Wight/KG: 224-7320

| No | Non gear D L mm | Dimensions |      |      | Mounting dimension |       |    |    |       |      | Structural Dimension |       |      | Weight kg |
|----|-----------------|------------|------|------|--------------------|-------|----|----|-------|------|----------------------|-------|------|-----------|
|    |                 | D mm       | d mm | H mm | D1 mm              | D2 mm | n  | mm | dm mm | L mm | n1 mm                | H1 mm | h mm |           |
| 1  | 130.25.500      | 634        | 366  | 148  | 598                | 402   | 24 | 18 | M16   | 32   | 4                    | 10    | 32   | 224       |
| 2  | 130.25.560      | 694        | 426  | 148  | 658                | 462   | 24 | 18 | M16   | 32   | 4                    | 10    | 32   | 240       |
| 3  | 130.25.630      | 764        | 496  | 148  | 728                | 532   | 28 | 18 | M16   | 32   | 4                    | 10    | 32   | 270       |
| 4  | 130.25.710      | 844        | 576  | 148  | 808                | 612   | 28 | 18 | M16   | 32   | 4                    | 10    | 32   | 300       |
| 5  | 130.32.800      | 964        | 636  | 182  | 920                | 680   | 36 | 22 | M20   | 40   | 4                    | 10    | 40   | 500       |
| 6  | 130.32.900      | 1064       | 736  | 182  | 1020               | 780   | 36 | 22 | M20   | 40   | 4                    | 10    | 40   | 600       |
| 7  | 130.32.1000     | 1164       | 836  | 182  | 1120               | 880   | 40 | 22 | M20   | 40   | 5                    | 10    | 40   | 680       |
| 8  | 130.32.1120     | 1284       | 956  | 182  | 1240               | 1000  | 40 | 22 | M20   | 40   | 5                    | 10    | 40   | 820       |
| 9  | 130.40.1250     | 1445       | 1055 | 220  | 1393               | 1107  | 45 | 26 | M24   | 48   | 5                    | 10    | 50   | 1200      |
| 10 | 130.40.1400     | 1595       | 1205 | 220  | 1543               | 1257  | 45 | 26 | M24   | 48   | 5                    | 10    | 50   | 1300      |
| 11 | 130.40.1600     | 1795       | 1405 | 220  | 1743               | 1457  | 48 | 26 | M24   | 48   | 6                    | 10    | 50   | 1520      |
| 12 | 130.40.1800     | 1995       | 1605 | 220  | 1943               | 1657  | 48 | 26 | M24   | 48   | 6                    | 10    | 50   | 1750      |
| 13 | 130.45.2000     | 2221       | 1779 | 231  | 2155               | 1845  | 60 | 33 | M30   | 60   | 6                    | 12    | 54   | 2400      |
| 14 | 130.45.2240     | 2461       | 2019 | 231  | 2395               | 2085  | 60 | 33 | M30   | 60   | 6                    | 12    | 54   | 2700      |
| 15 | 130.45.2500     | 2721       | 2279 | 231  | 2655               | 2345  | 72 | 33 | M30   | 60   | 8                    | 12    | 54   | 3000      |
| 16 | 130.45.2800     | 3021       | 2579 | 231  | 2955               | 2645  | 72 | 33 | M30   | 60   | 8                    | 12    | 54   | 3400      |
| 17 | 130.50.3150     | 3432       | 2868 | 270  | 3342               | 2958  | 72 | 45 | M42   | 84   | 8                    | 12    | 65   | 5000      |
| 18 | 130.50.3550     | 3832       | 3267 | 270  | 3742               | 3358  | 72 | 45 | M42   | 84   | 8                    | 258   | 65   | 5680      |
| 19 | 130.5.4000      | 4282       | 3718 | 270  | 4192               | 3808  | 80 | 45 | M42   | 84   | 8                    | 258   | 65   | 6470      |
| 20 | 130.50.4500     | 4782       | 4218 | 270  | 4692               | 4308  | 80 | 45 | M42   | 84   | 8                    | 258   | 65   | 7320      |

### Note:

1. N1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940. 1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
4. The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
5. "K" is addendum reduction coefficient.

## Light Type (H-06) Internal Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly

Title: **H062**

Weight/KG: 31-91

Strengths: The Oil nipple's location can be change according to the user's application.

Application:

1. food machinery,
2. canning machinery
3. environmental machinery etc.

Gear data :

0.8—0.5."Km" is addendum reduction; m: module; z: teeth nos.

| Model               | Weight Kg | Structural dimension |      |      |      |      |      | Gear Data(KN) |   |     |       | Gear force |         | Clearance |       |        |
|---------------------|-----------|----------------------|------|------|------|------|------|---------------|---|-----|-------|------------|---------|-----------|-------|--------|
|                     |           | D3                   | d1   | H1   | H2   | Hu   | Ho   | d             | m | z   | k.m   | b          | Allowed | Max       | Axial | Radial |
| <b>H062.20.0414</b> | 31        | 415.5                | 413  | 45.5 | 45.5 | 10.5 | 10.5 | 335           | 5 | 67  | -0.75 | 45.5       | 13.54   | 27.08     | ±0.28 | ±0.24  |
| <b>H062.20.0544</b> | 42        | 545.5                | 543  | 45.5 | 45.5 | 10.5 | 10.5 | 456           | 6 | 76  | -0.6  | 45.5       | 16.00   | 32.00     | ±0.30 | ±0.26  |
| <b>H062.20.0644</b> | 50        | 645.5                | 643  | 45.5 | 45.5 | 10.5 | 10.5 | 558           | 6 | 93  | -0.6  | 45.5       | 15.62   | 31.24     | ±0.30 | ±0.26  |
| <b>H062.20.0744</b> | 58        | 745.5                | 743  | 45.5 | 45.5 | 10.5 | 10.5 | 660           | 6 | 110 | -0.6  | 45.5       | 15.32   | 30.64     | ±0.30 | ±0.26  |
| <b>H062.20.0844</b> | 69        | 845.5                | 843  | 45.5 | 45.5 | 10.5 | 10.5 | 752           | 8 | 94  | -0.8  | 45.5       | 20.8    | 41.60     | ±0.30 | ±0.26  |
| <b>H062.20.0944</b> | 76        | 945.5                | 943  | 45.5 | 45.5 | 10.5 | 10.5 | 856           | 8 | 107 | -0.8  | 45.5       | 20.49   | 40.98     | ±0.30 | ±0.26  |
| <b>H062.20.1094</b> | 91        | 1096                 | 1093 | 45.5 | 45.5 | 10.5 | 10.5 | 1000          | 8 | 125 | -0.8  | 45.5       | 20.16   | 40.32     | ±0.30 | ±0.26  |

| Model               | Dimensions(mm) |       |    | Mounting dimension(mm) |      |    |      |    |    |
|---------------------|----------------|-------|----|------------------------|------|----|------|----|----|
|                     | D              | de    | H  | D1                     | D2   | n  | Φ    | M  | t  |
| <b>H062.20.0414</b> | 486            | 326.5 | 56 | 460                    | 375  | 24 | 13.5 | 12 | 20 |
| <b>H062.20.0544</b> | 616            | 445.2 | 56 | 590                    | 505  | 32 | 13.5 | 12 | 20 |
| <b>H062.20.0644</b> | 716            | 547.2 | 56 | 690                    | 605  | 36 | 13.5 | 12 | 20 |
| <b>H062.20.0744</b> | 816            | 649.2 | 56 | 790                    | 705  | 40 | 13.5 | 12 | 20 |
| <b>H062.20.0844</b> | 916            | 737.6 | 56 | 890                    | 805  | 40 | 13.5 | 12 | 20 |
| <b>H062.20.0944</b> | 1016           | 841.6 | 56 | 990                    | 905  | 44 | 13.5 | 12 | 20 |
| <b>H062.20.1094</b> | 1166           | 985.6 | 56 | 1140                   | 1055 | 48 | 13.5 | 12 | 20 |

Note:

1. N1 is the numbers of lubricating holes. Oil cup M8×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. "Km" is addendum reduction; m: module; z: teeth nos.
4. For the load curve capacity, please download our catalogue for slewing bearing.



## Light Type (H-23) Without Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly.

Type: **H060**

Weight/KG: 29-77

Strengths: The Oil nipple's location can be changed according to the user's application.

Application:

1. food machinery,
2. canning machinery
3. environmental machinery etc.

| Model               | Weight<br>kg | Dimensions (mm) |      |    | Mounting Dimension (mm) |      |    |      |    | Structural dimension (mm) |        |       |      |      |      | Clearance (mm) |       |        |
|---------------------|--------------|-----------------|------|----|-------------------------|------|----|------|----|---------------------------|--------|-------|------|------|------|----------------|-------|--------|
|                     |              | D               | de   | H  | D1]                     | D2   | n  | Φ    | M  | t                         | D3     | d1    | H1   | H2]  | Hu   | Ho             | Axial | Radial |
| <b>H060.20.0414</b> | 29           | 486             | 342  | 56 | 460                     | 368  | 24 | 13.5 | 12 | -                         | 412.5  | 415.5 | 45.5 | 45.5 | 10.5 | 10.5           | ≤0.28 | ≤0.24  |
| <b>H060.20.0544</b> | 37           | 616             | 472  | 56 | 590                     | 498  | 32 | 13.5 | 12 | -                         | 542.5  | 545.5 | 45.5 | 45.5 | 10.5 | 10.5           | ≤0.30 | ≤0.26  |
| <b>H060.20.0644</b> | 44           | 716             | 572  | 56 | 690                     | 598  | 36 | 13.5 | 12 | -                         | 642.5  | 645.5 | 45.5 | 45.5 | 10.5 | 10.5           | ≤0.30 | ≤0.26  |
| <b>H060.20.0744</b> | 52           | 816             | 672  | 56 | 790                     | 698  | 40 | 13.5 | 12 | -                         | 742.5  | 745.5 | 45.5 | 45.5 | 10.5 | 10.5           | ≤0.30 | ≤0.26  |
| <b>H060.20.0844</b> | 60           | 916             | 772  | 56 | 890                     | 798  | 40 | 13.5 | 12 | -                         | 842.5  | 845.5 | 45.5 | 45.5 | 10.5 | 10.5           | ≤0.30 | ≤0.26  |
| <b>H060.20.0944</b> | 67           | 1016            | 872  | 56 | 990                     | 898  | 44 | 13.5 | 12 | -                         | 942.5  | 945.5 | 45.5 | 45.5 | 10.5 | 10.5           | ≤0.30 | ≤0.26  |
| <b>H060.20.1094</b> | 77           | 1166            | 1022 | 56 | 1140                    | 1048 | 48 | 13.5 | 12 | -                         | 1092.5 | 1096  | 45.5 | 45.5 | 10.5 | 10.5           | ≤0.30 | ≤0.26  |

Note:

1. N1 is the numbers of lubricating holes. Oil cup M8×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be changed according to the user's application.
3. "Km" is addendum reduction; m: module; z: teeth nos.
4. For the load curve capacity, please download our catalogue for slewing bearing.

## Light Type (H-23) Internal Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly

Title: **H232**

Weight/KG: 26.9-80.3

Strengths: The Oil nipple's location can be change according to the user's application.

Application:

1. food machinery,
2. canning machinery
3. environmental machinery etc.

Gear data :

-0.6—0.8. "Km" is addendum reduction; m: module; z: teeth nos.

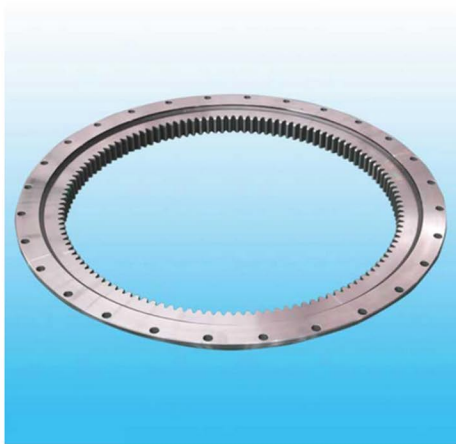
| Model        | Wght<br>Kg | Structural dimension (mm) |        |       |      |      |      | Gear data |     |      |       | Gear force (KN) |       | Clearance(mm) |        |
|--------------|------------|---------------------------|--------|-------|------|------|------|-----------|-----|------|-------|-----------------|-------|---------------|--------|
|              |            | n1                        | D3     | d1    | A    | Hu   | d    | m         | z   | b    | Km    | Allowed         | Max   | Axial         | Radial |
| H232.20.0414 | 26.9       | 4                         | 412.5  | 415.5 | 453  | 10.5 | 335  | 5         | 67  | 45.5 | -0.75 | 13.54           | 27.08 | ≤0.5          | ≤0.5   |
| H232.20.0544 | 36.7       | 4                         | 542.5  | 545.5 | 583  | 10.5 | 456  | 6         | 76  | 45.5 | -0.6  | 16.00           | 32.00 | ≤0.5          | ≤0.5   |
| H232.20.0644 | 43.4       | 4                         | 642.5  | 645.5 | 683  | 10.5 | 558  | 6         | 93  | 45.5 | -0.6  | 15.62           | 31.24 | ≤0.5          | ≤0.5   |
| H232.20.0744 | 50.8       | 4                         | 742.5  | 745.5 | 783  | 10.5 | 660  | 6         | 110 | 45.5 | -0.6  | 15.32           | 30.64 | ≤0.5          | ≤0.5   |
| H232.20.0844 | 61.3       | 4                         | 842.5  | 845.5 | 883  | 10.5 | 752  | 8         | 94  | 45.5 | -0.8  | 20.8            | 41.60 | ≤0.5          | ≤0.5   |
| H232.20.0944 | 65.4       | 4                         | 942.5  | 945.5 | 983  | 10.5 | 856  | 8         | 107 | 45.5 | -0.8  | 20.49           | 40.98 | ≤0.5          | ≤0.5   |
| H232.20.1094 | 80.3       | 4                         | 1092.5 | 1096  | 1133 | 10.5 | 1000 | 8         | 125 | 45.5 | -0.8  | 20.16           | 40.32 | ≤0.5          | ≤0.5   |

| Model        | Dimensions (mm) |       |    | Mounting dimension(mm) |      |    |     |    |     |    |
|--------------|-----------------|-------|----|------------------------|------|----|-----|----|-----|----|
|              | D               | de    | H  | D1                     | D2   | na | Φ/M | ni | Φ/M | t  |
| H232.20.0414 | 518             | 326.5 | 56 | 490                    | 375  | 16 | 18  | 12 | M12 | 20 |
| H232.20.0544 | 648             | 445.5 | 56 | 620                    | 505  | 20 | 18  | 16 | M12 | 20 |
| H232.20.0644 | 748             | 547.5 | 56 | 720                    | 605  | 24 | 18  | 18 | M12 | 20 |
| H232.20.0744 | 848             | 649.2 | 56 | 820                    | 705  | 24 | 18  | 20 | M12 | 20 |
| H232.20.0844 | 948             | 737.6 | 56 | 920                    | 805  | 28 | 18  | 20 | M12 | 20 |
| H232.20.0944 | 1048            | 841.6 | 56 | 1020                   | 905  | 32 | 18  | 22 | M12 | 20 |
| H232.20.1094 | 1198            | 985.6 | 56 | 1170                   | 1055 | 32 | 18  | 24 | M12 | 20 |

Note:

1. N1 is the numbers of lubricating holes. Oil cup M8×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. "Km" is addendum reduction; m: module; z: teeth nos.
4. For the load curve capacity, please download our catalogue for slewing bearing.

## Light Type (H-23) External Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly.

Type: **H231**

Weight/KG: 29-82.5

Strengths: The Oil nipple's location can be change according to the user's application.

Application:

1. food machinery,
2. canning machinery
3. environmental machinery etc.

Gear data :

-0.8—-0.5."Km" is addendum reduction; m: module; z: teeth nos.

| Model               | Wght<br>kg | Structural dimension (mm) |       |        |      |      |      | Gear data |     |      |      | Gear force ( KN) |       | Clearance (mm) |        |
|---------------------|------------|---------------------------|-------|--------|------|------|------|-----------|-----|------|------|------------------|-------|----------------|--------|
|                     |            | n1                        | D3    | d1     | C    | Hu   | d    | m         | z   | b    | Km   | Allowed          | Max   | Axial          | Radial |
| <b>H231.20.0414</b> | 29.0       | 4                         | 412.5 | 415.5  | 375  | 10.5 | 495  | 5         | 99  | 45.5 | -0.5 | 11.75            | 23.50 | ≤0.5           | ≤0.5   |
| <b>H231.20.0544</b> | 39.2       | 4                         | 542.5 | 545.5  | 505  | 10.5 | 630  | 6         | 105 | 45.5 | -0.5 | 14.2             | 28.40 | ≤0.5           | ≤0.5   |
| <b>H231.20.0644</b> | 47.2       | 4                         | 642.5 | 645.5  | 605  | 10.5 | 732  | 6         | 122 | 45.5 | -0.6 | 14.2             | 28.40 | ≤0.5           | ≤0.5   |
| <b>H231.20.0744</b> | 53.1       | 4                         | 742.5 | 745.5  | 705  | 10.5 | 828  | 6         | 138 | 45.5 | -0.6 | 14.2             | 28.40 | ≤0.5           | ≤0.5   |
| <b>H231.20.0844</b> | 64.7       | 4                         | 842.5 | 845.5  | 805  | 10.5 | 936  | 8         | 117 | 45.5 | -0.8 | 18.93            | 37.86 | ≤0.5           | ≤0.5   |
| <b>H231.20.0944</b> | 69.1       | 4                         | 942.5 | 945.5  | 905  | 10.5 | 1032 | 8         | 129 | 45.5 | -0.8 | 18.93            | 37.86 | ≤0.5           | ≤0.5   |
| <b>H231.20.1094</b> | 82.5       | 4                         | 1093  | 1095.5 | 1055 | 10.5 | 1184 | 8         | 148 | 45.5 | -0.8 | 18.93            | 37.86 | ≤0.5           | ≤0.5   |

| Model               | Dimensions (mm) |     |    | Mounting dimension (mm) |      |    |     |    |     |    |
|---------------------|-----------------|-----|----|-------------------------|------|----|-----|----|-----|----|
|                     | D               | de  | H  | D1                      | D2   | na | Φ/M | ni | Φ/M | t  |
| <b>H231.20.0414</b> | 504             | 304 | 56 | 455                     | 332  | 10 | M12 | 24 | 18  | 20 |
| <b>H231.20.0544</b> | 640.8           | 434 | 56 | 585                     | 462  | 14 | M12 | 28 | 18  | 20 |
| <b>H231.20.0644</b> | 742.8           | 534 | 56 | 685                     | 562  | 16 | M12 | 32 | 18  | 20 |
| <b>H231.20.0744</b> | 838.8           | 634 | 56 | 785                     | 662  | 18 | M12 | 32 | 18  | 20 |
| <b>H231.20.0844</b> | 950.4           | 734 | 56 | 885                     | 762  | 18 | M12 | 36 | 18  | 20 |
| <b>H231.20.0944</b> | 1046            | 834 | 56 | 985                     | 862  | 20 | M12 | 40 | 18  | 20 |
| <b>H231.20.1094</b> | 1198            | 984 | 56 | 1135                    | 1012 | 22 | M12 | 40 | 18  | 20 |

Note:

1. N1 is the numbers of lubricating holes. Oil cup M8×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. "Km" is addendum reduction; m: module; z: teeth nos.
4. For the load curve capacity, please download our catalogue for slewing bearing.

## Light Type (H-23) Without Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly.

Title: **H230**

Wight/KG:23-61

Strengths: The Oil nipple's location can be change according to the user's application.

Application:

1. food machinary,
2. canning machinery
3. environmental machinery etc.

| Model               | Weight Kg | Dimensions(mm) |     |    | Mounting dimension(mm) |      |    |    |    |     |      | Structural dimension(mm) |        |      |      |      |      | Clearance(mm) |        |
|---------------------|-----------|----------------|-----|----|------------------------|------|----|----|----|-----|------|--------------------------|--------|------|------|------|------|---------------|--------|
|                     |           | D              | de  | H  | D1                     | D2   | na | Φ  | ni | Φ/M | t/n1 | D3                       | d1     | A    | C    | Hu   | Ho   | Axial         | Radial |
| <b>H230.20.0414</b> | 23.0      | 518            | 304 | 56 | 490                    | 332  | 16 | 18 | 24 | 18  | 4    | 412.5                    | 415.5  | 453  | 375  | 10.5 | 10.5 | ±0.5          | ±0.5   |
| <b>H230.20.0544</b> | 30.4      | 648            | 434 | 56 | 620                    | 462  | 20 | 18 | 28 | 18  | 4    | 542.5                    | 545.5  | 583  | 505  | 10.5 | 10.5 | ±0.5          | ±0.5   |
| <b>H230.20.0644</b> | 35.8      | 748            | 534 | 56 | 720                    | 562  | 24 | 18 | 32 | 18  | 4    | 642.5                    | 645.5  | 683  | 605  | 10.5 | 10.5 | ±0.5          | ±0.5   |
| <b>H230.20.0744</b> | 42.2      | 848            | 634 | 56 | 820                    | 662  | 24 | 18 | 32 | 18  | 4    | 742.5                    | 745.5  | 783  | 705  | 10.5 | 10.5 | ±0.5          | ±0.5   |
| <b>H230.20.0844</b> | 47.1      | 948            | 734 | 56 | 920                    | 762  | 28 | 18 | 36 | 18  | 4    | 842.5                    | 845.5  | 883  | 805  | 10.5 | 10.5 | ±0.5          | ±0.5   |
| <b>H230.20.0944</b> | 52.3      | 1048           | 834 | 56 | 1020                   | 862  | 32 | 18 | 40 | 18  | 4    | 942.5                    | 945.5  | 983  | 905  | 10.5 | 10.5 | ±0.5          | ±0.5   |
| <b>H230.20.1094</b> | 61.1      | 1198           | 984 | 56 | 1170                   | 1012 | 32 | 18 | 40 | 18  | 4    | 1092.5                   | 1095.5 | 1133 | 1055 | 10.5 | 10.5 | ±0.5          | ±0.5   |

Note:

1. N1 is the numbers of lubricating holes. Oil cup M8×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. "Km" is addendum reduction; m: module; z: teeth nos.
4. For the load curve capacity, please download our catalogue for slewing bearing.



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