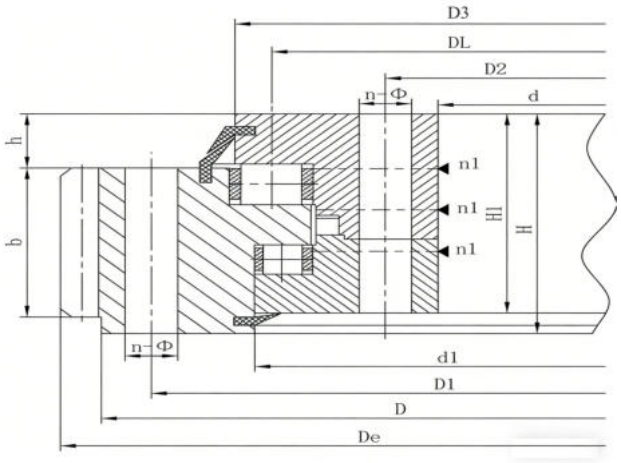
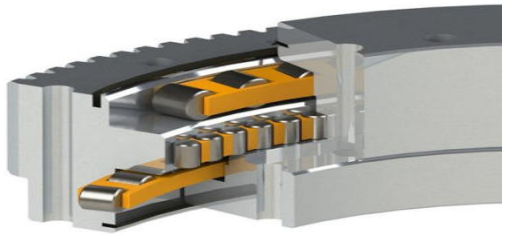
## Three Row Roller Slewing Bearing

## External Gear（131/132 Series）



| No. | External gear D L mm | Dimensions | | | Mounting Dimensions | | | | | | Structural Dimension | | | | | Gear data | | | | | Tooth force | | weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D mm | d mm | H mm | D 1 mm | D 2 mm | n | Ø mm | dm mm | L mm | D3 mm | d1 mm | n 1 | H 1 mm | h mm | b mm | x | m mm | D e mm | z | Normalizing $Z10_4N$ | Quenching $T10_4N$ | |
| 1 | 131.25.500 | 634 | 366 | 148 | 598 | 402 | 24 | 18 | M16 | 32 | 537 | 526 | 4 | 138 | 32 | 80 | 0.5 | 5 | 664 | 130 | 5 | 6.7 | 224 |
| | 132.25.500 | | | | | | | | | | | | | | | | | 6 | 664.8 | 108 | 6 | 8 | |
| 2 | 131.25.560 | 694 | 426 | 148 | 658 | 462 | 24 | 18 | M16 | 32 | 597 | 586 | 4 | 138 | 32 | 80 | 0.5 | 5 | 724 | 142 | 5 | 6.7 | 240 |
| | 132.25.560 | | | | | | | | | | | | | | | | | 6 | 724.8 | 118 | 6 | 8 | |
| 3 | 131.25.630 | 764 | 496 | 148 | 728 | 532 | 28 | 18 | M16 | 32 | 667 | 656 | 4 | 138 | 32 | 80 | 0.5 | 6 | 808.8 | 132 | 6 | 8 | 270 |
| | 132.25.630 | | | | | | | | | | | | | | | | | 8 | 806.4 | 98 | 8 | 11 | |
| 4 | 131.25.710 | 844 | 576 | 148 | 808 | 612 | 28 | 18 | M16 | 32 | 747 | 736 | 4 | 138 | 32 | 80 | 0.5 | 6 | 886.8 | 145 | 6 | 8 | 300 |
| | 132.25.710 | | | | | | | | | | | | | | | | | 8 | 886.4 | 108 | 8 | 11 | |
| 5 | 131.32.800 | 964 | 636 | 182 | 920 | 680 | 36 | 22 | M20 | 40 | 841 | 830 | 4 | 172 | 40 | 120 | 0.5 | 8 | 1006.4 | 123 | 12.1 | 16.7 | 500 |
| | 132.32.800 | | | | | | | | | | | | | | | | | 10 | 1008 | 98 | 15.1 | 20.9 | |
| 6 | 131.32.900 | 1064 | 736 | 182 | 1020 | 780 | 36 | 22 | M20 | 40 | 941 | 930 | 4 | 172 | 40 | 120 | 0.5 | 8 | 1102.4 | 135 | 12.1 | 16.7 | 600 |
| | 132.32.900 | | | | | | | | | | | | | | | | | 10 | 1108 | 108 | 15.1 | 20.9 | |
| 7 | 131.32.1000 | 1164 | 836 | 182 | 1120 | 880 | 40 | 22 | M20 | 40 | 1041 | 1030 | 5 | 172 | 40 | 120 | 0.5 | 10 | 1218 | 119 | 15.1 | 20.9 | 680 |
| | 132.32.1000 | | | | | | | | | | | | | | | | | 12 | 1221.6 | 99 | 18.1 | 25.1 | |

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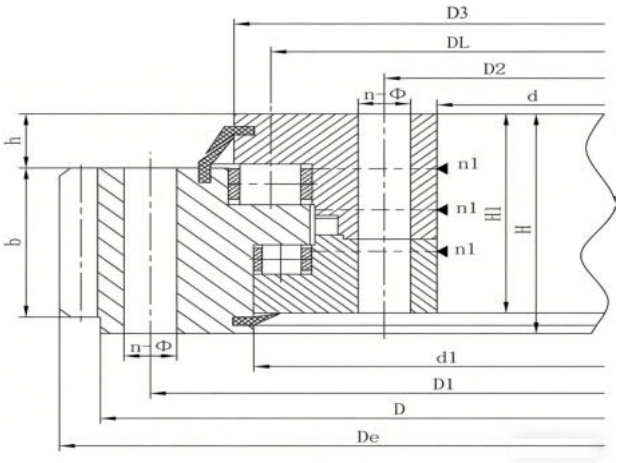
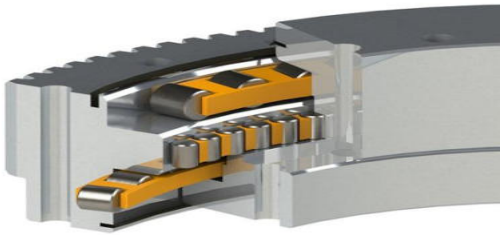
Luoyang City, Henan Province, China
slewing-ringbearing.com

0086 17303885663
0086 379 60118802
lyjw09@jw-bearing.com

## Three Row Roller Slewing Bearing

## External Gear（131/132 Series）



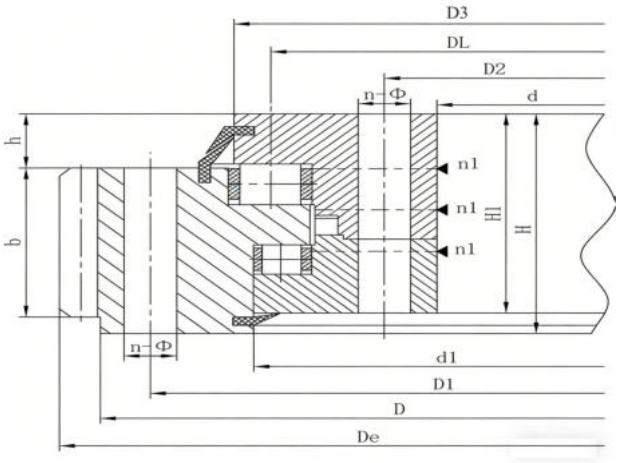
| No. | External gear D L mm | Dimensions | | | Mounting Dimensions | | | | | | Structural Dimension | | | | | Gear data | | | | | Tooth force | | weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D mm | d mm | H mm | D 1 mm | D 2 mm | n | Ø mm | dm mm | L mm | D3 mm | d1 mm | n 1 | H 1 mm | h mm | b mm | x | m mm | D e mm | z | Normalizing $Z10_4N$ | Quenching $T10_4N$ | |
| 8 | 131.32.1120 | 1284 | 956 | 182 | 1240 | 1000 | 40 | 22 | M20 | 40 | 1161 | 1150 | 5 | 172 | 40 | 120 | 0.5 | 10 | 1338 | 131 | 15.1 | 20.9 | 820 |
| | 132.32.1120 | | | | | | | | | | | | | | | | | 12 | 1341.6 | 109 | 18.1 | 25.1 | |
| 9 | 131.40.1250 | 1445 | 1055 | 220 | 1393 | 1107 | 45 | 26 | M24 | 48 | 1300 | 1287 | 5 | 210 | 50 | 150 | 0.5 | 12 | 1509.6 | 123 | 22.9 | 31.4 | 1200 |
| | 132.40.1250 | | | | | | | | | | | | | | | | | 14 | 1509.2 | 105 | 26.3 | 36.6 | |
| 10 | 131.40.1400 | 1595 | 1205 | 220 | 1543 | 1257 | 45 | 26 | M24 | 48 | 1450 | 1437 | 5 | 210 | 50 | 150 | 0.5 | 12 | 1665.6 | 136 | 22.9 | 31.4 | 1300 |
| | 132.40.1400 | | | | | | | | | | | | | | | | | 14 | 1663.2 | 116 | 26.3 | 36.6 | |
| 11 | 131.40.1600 | 1795 | 1405 | 220 | 1743 | 1457 | 48 | 26 | M24 | 48 | 1650 | 1637 | 6 | 210 | 50 | 150 | 0.5 | 14 | 1873.2 | 131 | 26.3 | 36.6 | 1520 |
| | 132.40.1600 | | | | | | | | | | | | | | | | | 16 | 1868.8 | 114 | 30.2 | 41.7 | |
| 12 | 131.40.1800 | 1995 | 1605 | 220 | 1943 | 1657 | 48 | 26 | M24 | 48 | 1850 | 1837 | 6 | 210 | 50 | 150 | 0.5 | 14 | 2069.2 | 145 | 26.3 | 36.6 | 1750 |
| | 132.40.1800 | | | | | | | | | | | | | | | | | 16 | 2076.8 | 127 | 30.2 | 41.7 | |
| 13 | 131.45.2000 | 2221 | 1779 | 231 | 2155 | 1845 | 60 | 33 | M30 | 60 | 2055 | 2033 | 6 | 219 | 54 | 160 | 0.5 | 16 | 2300.8 | 141 | 32.2 | 44.5 | 2400 |
| | 132.45.2000 | | | | | | | | | | | | | | | | | 18 | 2300.4 | 125 | 36.2 | 50.1 | |
| 14 | 131.45.2240 | 2461 | 2019 | 231 | 2395 | 2085 | 60 | 33 | M30 | 60 | 2295 | 2273 | 6 | 219 | 54 | 160 | 0.5 | 16 | 2556.8 | 157 | 32.2 | 44.5 | 2700 |
| | 132.45.2240 | | | | | | | | | | | | | | | | | 18 | 2552.4 | 139 | 36.2 | 50.1 | |

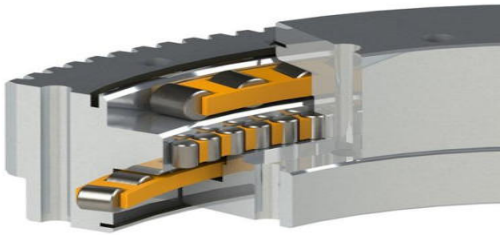
Bearing Zone, Yiyang Industry Cluster District,
Luoyang City, Henan Province, China
slewing-ringbearing.com

0086 17303885663
0086 379 60118802
lyjw09@jw-bearing.com

## Three Row Roller Slewing Bearing

## External Gear（131/132 Series）



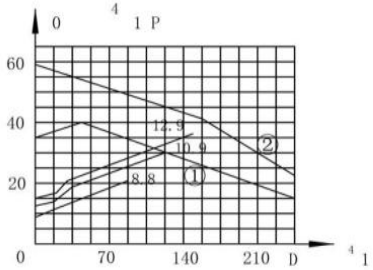



| No. | External gear D L mm | Dimensions | | | Mounting Dimensions | | | | | | Structural Dimension | | | | | Gear data | | | | | Tooth force | | weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | D mm | d mm | H mm | D 1 mm | D 2 mm | n | Ø mm | dm mm | L mm | D3 mm | d1 mm | n 1 | H 1 mm | h mm | b mm | x | m mm | D e mm | z | Normalizing $Z10_4N$ | Quenching $T10_4N$ | |
| 15 | 131.45.2500 | 2721 | 2279 | 231 | 2655 | 2345 | 72 | 33 | M30 | 60 | 2555 | 2533 | 8 | 219 | 54 | 160 | 0.5 | 18 | 2822.4 | 154 | 36.2 | 50.1 | 3000 |
| | 132.45.2500 | | | | | | | | | | | | | | | | | 20 | 2816 | 138 | 40.2 | 55.6 | |
| 16 | 131.45.2800 | 3021 | 2579 | 231 | 2955 | 2645 | 72 | 33 | M30 | 60 | 2855 | 2833 | 8 | 219 | 54 | 160 | 0.5 | 18 | 3110.4 | 170 | 36.2 | 50.1 | 3400 |
| | 132.45.2800 | | | | | | | | | | | | | | | | | 20 | 3116 | 153 | 40.2 | 55.6 | |
| 17 | 131.50.3150 | 3432 | 2868 | 270 | 3342 | 2958 | 72 | 45 | M42 | 84 | 3213 | 3196 | 8 | 258 | 65 | 180 | 0.5 | 20 | 3536 | 174 | 45.2 | 62.6 | 5000 |
| | 132.50.3150 | | | | | | | | | | | | | | | | | 22 | 3537.6 | 158 | 49.8 | 68.9 | |
| 18 | 131.50.3550 | 3832 | 3268 | 270 | 3742 | 3358 | 72 | 45 | M42 | 84 | 3613 | 3596 | 8 | 258 | 65 | 180 | 0.5 | 20 | 3936 | 194 | 45.2 | 62.6 | 5680 |
| | 132.50.3550 | | | | | | | | | | | | | | | | | 22 | 3933.6 | 176 | 49.8 | 68.9 | |
| 19 | 131.50.4000 | 4282 | 3718 | 270 | 4192 | 3808 | 80 | 45 | M42 | 84 | 4063 | 4046 | 8 | 258 | 65 | 180 | 0.5 | 22 | 4395.6 | 197 | 49.8 | 68.9 | 6470 |
| | 132.50.4000 | | | | | | | | | | | | | | | | | 25 | 4395 | 173 | 56.5 | 78.3 | |
| 20 | 131.50.4500 | 4782 | 4218 | 270 | 4692 | 4308 | 80 | 45 | M42 | 84 | 4563 | 4546 | 8 | 258 | 65 | 180 | 0.5 | 22 | 4901.6 | 220 | 49.8 | 68.9 | 7320 |
| | 132.50.4500 | | | | | | | | | | | | | | | | | 25 | 4895 | 193 | 56.5 | 78.3 | |

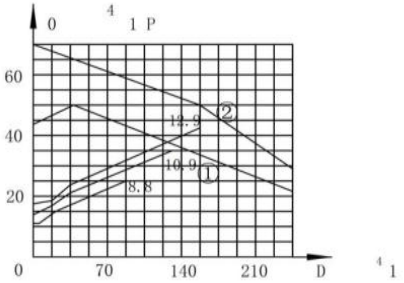
Bearing Zone, Yiyang Industry Cluster District,
Luoyang City, Henan Province, China
slewing-ringbearing.com

0086 17303885663
0086 379 60118802
lyjw09@jw-bearing.com

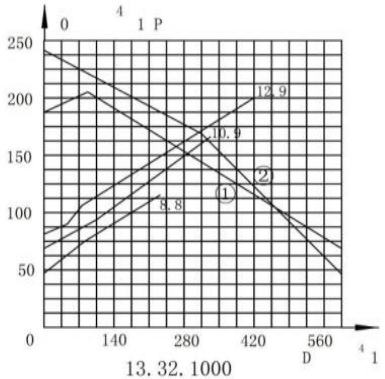
# Four Point Contact Ball Slewing Bearing Load Curve



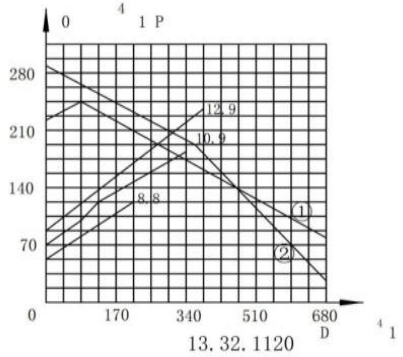

13. 25. 500



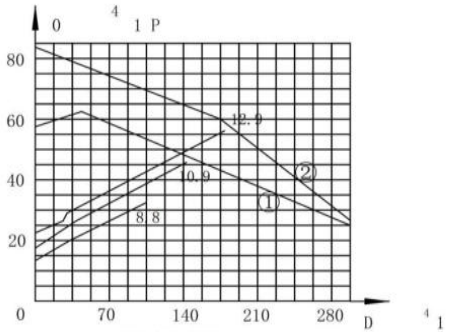

13. 25. 560



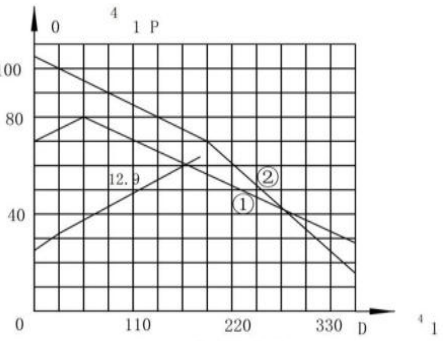

13. 32. 1000



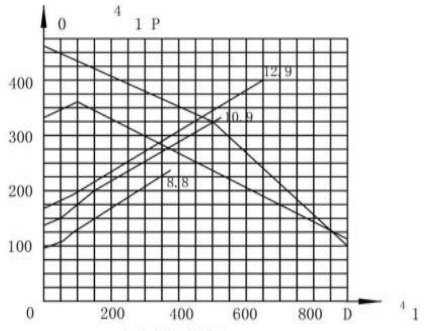

13. 32. 1120



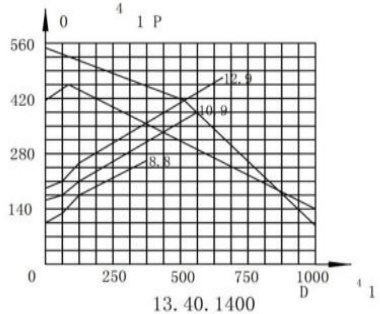

13. 25. 630



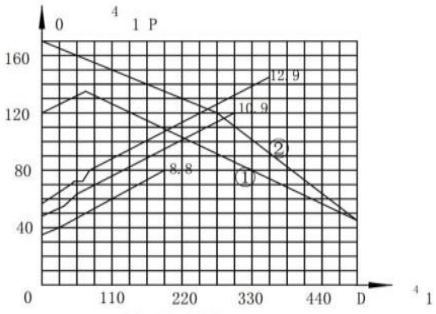

13. 25. 710



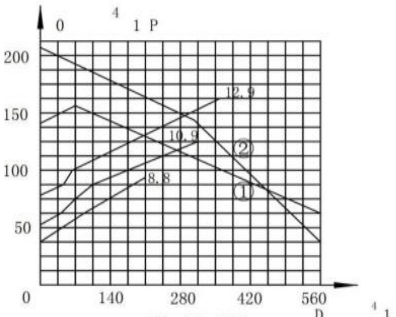

13. 40. 1250



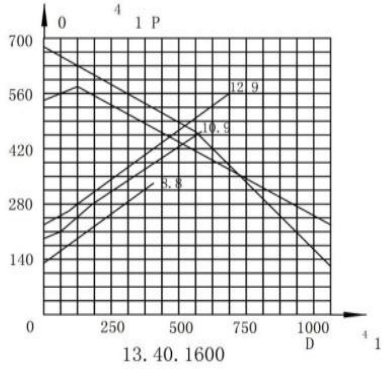

13. 40. 1400



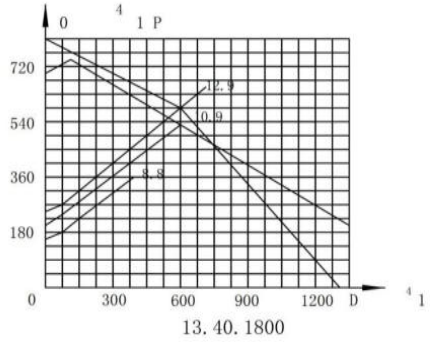

13. 32. 800




13. 32. 900




13. 40. 1600

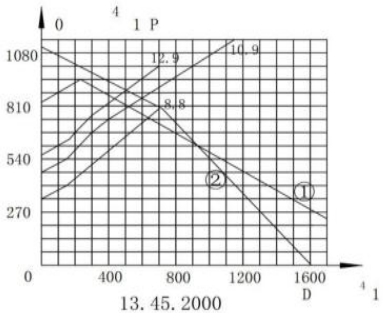



13. 40. 1800

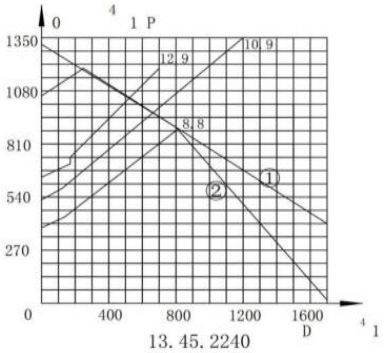
Bearing Zone, Yiyang Industry Cluster District,
Luoyang City, Henan Province, China
slewing-ringbearing.com

0086 17303885663
0086 379 60118802
lyjw09@jw-bearing.com

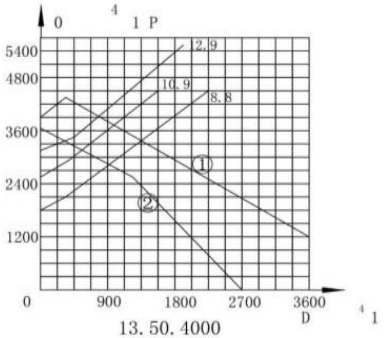
# Four Point Contact Ball Slewing Bearing Load Curve



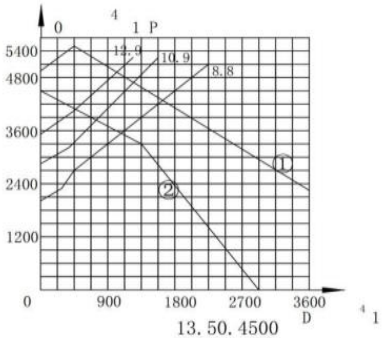

13. 45. 2000



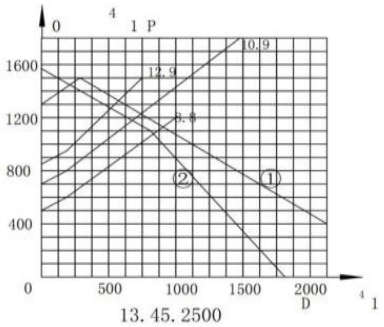

13. 45. 2240



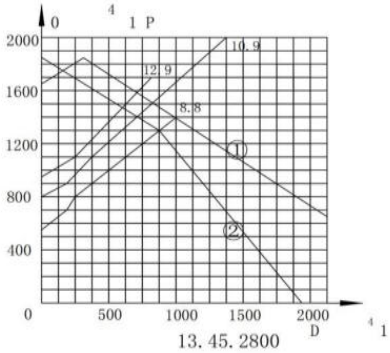

13. 50. 4000



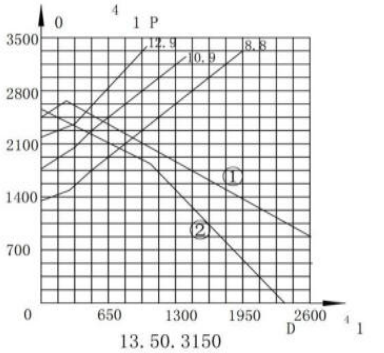

13. 50. 4500



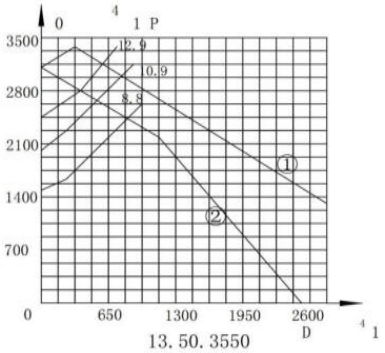

13. 45. 2500




13. 45. 2800




13. 50. 3150

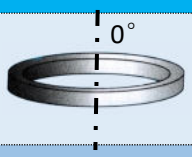



13. 50. 3550

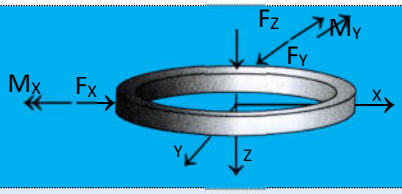
Bearing Zone, Yiyang Industry Cluster District,
Luoyang City, Henan Province, China
slewing-ringbearing.com

0086 17303885663
0086 379 60118802
lyjw09@jw-bearing.com

# Application Questionnaire

| Application | | | |
|---|---|---|---|
| Axis of rotation（Unit：Degree) |  | | |
| Mounting position | Horizontal ☐ | Suspend ☐ | Vertical ☐ |
| Number of motors | | | |
| Position of motor on lever (Unit:Degree) | | | |

## Load

|  | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| | Operating load | Max.working load | Testing load | Extreme load (out of operation) |
| Axial force Fz KN | | | | |
| Radial force Fx KN | | | | |
| Radial force Fy KN | | | | |
| Moment Mx KNm | | | | |
| Moment My KNm | | | | |
| Load percentage | | | | |
| Ratio Percentage | | | | |

## Operating Condition

| | |
|---|---|
| Environment(dust,water,seaeater,chemical substance,and etc) | |
| Operating temperature | ℃ |
| Working time | hour/day |
| Rotation time | % |
| Oscillating frequency | 1/hour |
| Mean rotating degree each oscillating moment | ° |