

**OKAi<sup>®</sup>**  
**融欧轴承**

**电机静音轴承**  
**风机轴承**

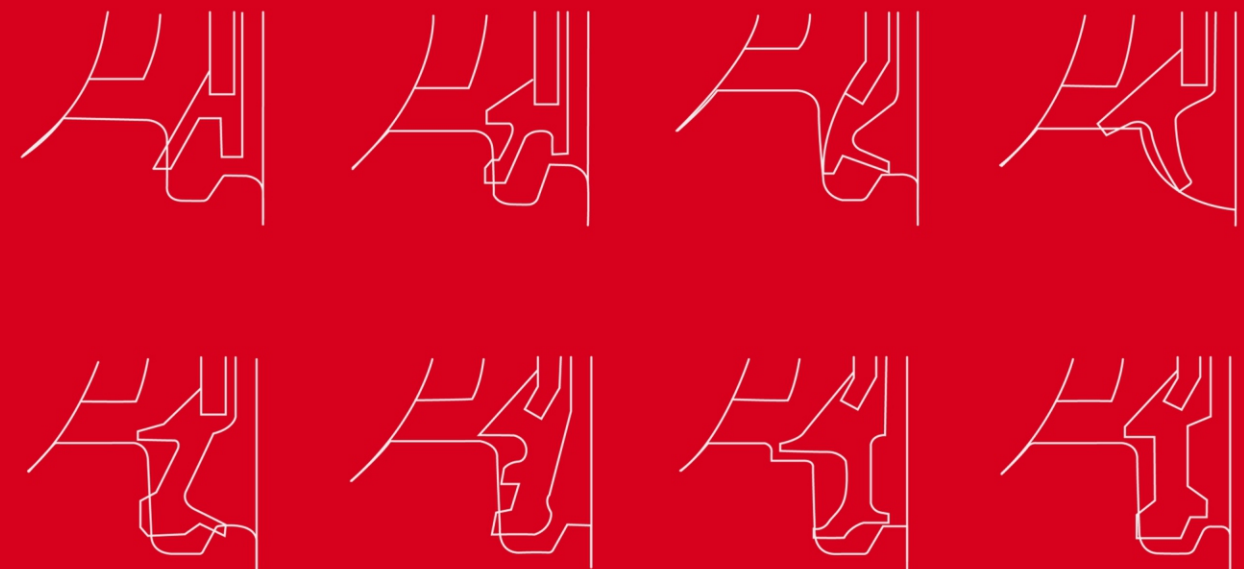
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更大的强度

更高的精度

更长的寿命





# 欧凯轴承

## 畅销全球 走向世界

### OUKAI BEARING POPULAR WORLDWIDE IN THE WORLD

## 企业简介

### Enterprise Introduction

临清市欧凯轴承有限公司是一家高速发展起来的新型轴承制造企业。位于山东省临清市烟店镇，是中国很大的轴承之乡。公司主要从事深沟球轴承产品的研发和提供行业应用解决方案，主要产品系列有6000系列、6200系列、6300系列、6400系列以及非标轴承产品定制开发，产品广泛用于电机、电动叉车、电动机械、水泵、发电机、摩托车、汽车、农业机械等各领域的轴承范围。公司以雄厚的技术力量，精良的生产装备，完善的检测手段，稳定可靠的产品质量，热情周到的服务，卓越的产品性能赢得了商家和用户的赞誉和欢迎。

经全体员工的共同努力，立志开拓，努力创新，不断发展壮大，公司现已成为同行中的佼佼者。我们将秉承着“质量就是生命，诚信就是道路”的方针，以打造“诚信发展，和谐共赢”的企业为己任，为客户提供更优质的产品和服务。

Linqing oukai bearing co., LTD. is a new bearing manufacturing enterprise with high speed development. Located in yandian town, linqing city, shandong province, it is a big bearing town in China. Company is mainly engaged in research and development of deep groove ball bearing products and provide industry application solutions, the main products series, 6000 series, 6200 series, 6300 series, 6400 series and non-standard bearing products custom development, the products are widely used in motor, electric forklifts, electric machinery, water pumps, generators, motorcycle, automobile, agricultural machinery and so on various areas of bearing. The company with strong technical force, sophisticated production equipment, perfect detection means, stable and reliable product quality, warm and thoughtful service, excellent product performance has won the praise and welcome of merchants and users.

Through the joint efforts of all the staff, determined to develop, innovation, and continue to grow, the company has become a leader in the peer. We will adhere to the "quality is life, integrity is the road" policy, to create "integrity development, harmony and win-win" for the responsibility of the enterprise, to provide customers with better products and services.

## 发展历程

### Development History

2018

继往开来，欧凯轴承一直在专注！

Carry on, oukai bearing has been focused!

2017

通过IATF16949:2016质量管理体系认证

Latf 16949:2016 quality management system certification.

2016

启用新的轴承生产基地

A new bearing production base was activated.

2015

实现全自动化轴承清洗、注脂、密封生产线

Fully automatic bearing cleaning, grease injection, sealing production line.

2012

全面导入电子商务系统

Fully import e-commerce system

2007

取得ISO-9001质量保证体系的认证

Obtain ISO-9001 quality assurance system certification.

2005

引进国内先进的热处理生产线

Introduce domestic advanced heat treatment production line.

2002

临清市欧凯轴承有限公司迁入烟店镇工业园

Oukai bearing moved into yandian town industrial park.

2000

成立临清市欧凯轴承有限公司

Established linqing oukai bearing co.,LTD.

## OEM

### Original Equipment Manufacturer

OEM是英文Original Equipment Manufacturer的缩写，也称为定点生产，俗称代工（生产），基本含义为品牌生产者不直接生产产品，而是利用自己掌握的关键的核心技术负责设计和开发新产品，控制销售渠道。

原始设备制造商具体的加工任务通过合同订购的方式委托同类产品的其他厂家生产，再将所订产品低价买断，并直接贴上自己的品牌商标。这种委托他人生产的合作方式简称OEM，承接加工任务的制造商被称为OEM厂商，其生产的产品被称为OEM产品。可见，定点生产属于加工贸易中的“代工生产”方式，在国际贸易中是以商品为载体的劳务出口。

## OEM

### 欧凯轴承畅销全球走向世界

oukai bearing Popular worldwide in the world

欧凯轴承与世界对话

OEM is an abbreviation of English Original Equipment Manufacturer, also known as fixed-point production, commonly known as OEM (production), which basically means that the brand producer does not directly produce products, but is responsible for designing and developing new products and controlling sales channels by using the key core technologies mastered by himself.

The specific processing tasks of OEM are commissioned to other manufacturers of similar products by means of contract ordering, and then the ordered products are bought out at a low price and directly affixed with their own brand trademarks. This kind of cooperation mode of commissioned production referred to as OEM, undertake the processing tasks of the manufacturer is called OEM, its products are called OEM products. It can be seen that the fixed production belongs to the "contract production" mode in the processing trade, and in the international trade, it is the export of labor services with commodity as the carrier.



## Enterprise Culture

### 企业文化

企业方针：以诚为基，以人为本，创新务实，高效发展；

企业精神：勇气、探索、创新、拼搏；

经营理念：立安思危，创优求存；

质量观念：以质量求生存，以质量求发展，向质量要效益；

Enterprise Policy:

Based on sincerity, People-oriented, Innovative and pragmatic,  
Efficient development;

Enterprise Spirit:

Courage, Exploration, Innovation dard work;

Business philosophy:

Make peace with danger, Create excellence and survive

Quality Concept:

Quality for survival, Quality for development, Quality to benefit

**更大的强度，更高的精度，更长的寿命**

**Greater Strength Higher Accuracy Longer Life**

## Enterprise Honor

### 企业荣誉



继往开来，欧凯轴承一直在专注！

CARRY ON,

OUKAI BEARING HAS BEEN FOCUSED!



## 生产场景

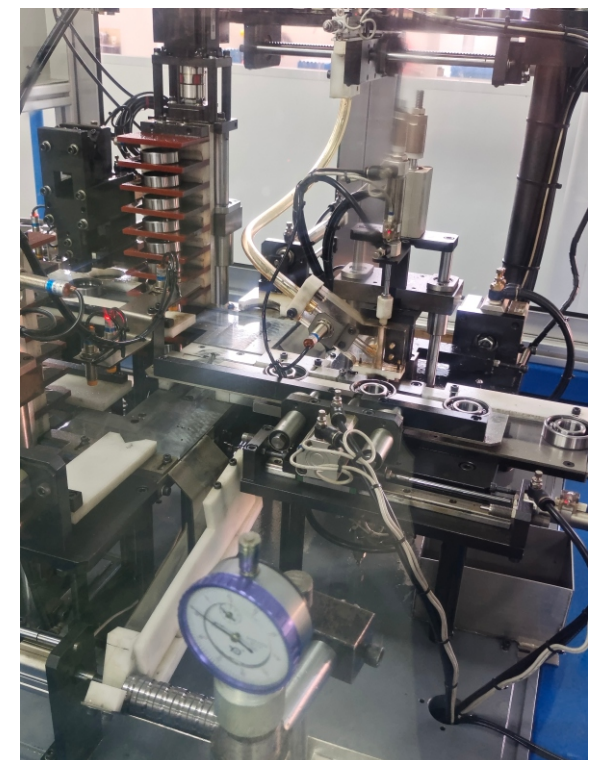
## Production Scenarios



引进最先进的轴承专业制造设备，广泛应用数控全自动加工设备，凭借较强的产品自我配套能力，创造低成本的高品质轴承.....

在激烈的市场竞争中稳步提高不断创新，提供客户最为满意的轴承产品。

The introduction of the most advanced bearing professional manufacturing equipment, a wide range of CNC automatic processing equipment, with strong product self supporting capacity, to create a low-cost high-quality bearings..... In the fierce competition in the market steadily improve the continuous innovation, to provide customers with the most satisfactory bearing products.





生产流程

Production Process







## 深沟球轴承

### Deep Groove Ball Bearings

深沟球轴承一般由一对套圈、一组保持架、一组钢球组成。其结构简单，使用方便，是生产最普遍、应用最广泛的一类轴承。该类型轴承主要用来承受径向负荷，但也可承受一定量的任一方向的轴向负荷。当在一定范围内，加大轴承的径向游隙时，此种轴承具有角接触球轴承的性质，还可以承受较大的轴向负荷。深沟球轴承装在轴上以后，可使轴或外壳的轴向位移限制在轴承的轴向范围内。同时，当外壳孔和轴（或外圈对内圈）相对有倾斜的，（不超过 $8' - 16'$ ，根据游隙确定）仍可以正常工作。既然有倾斜存在，就必然要降低轴承使用寿命。

Deep groove ball bearing generally consists a pair of rings, a set of cage, a set of steel balls. Its simple structure and easy usability make itself as the most common and most widely used type of bearings. This kind of bearings is mainly used to bear radial load, moreover, it also could withstand a certain amount of axial load. When increasing the radial clearance of bearing, this kind of bearing has properties of angle contact ball bearing to bear a large axial load within a certain range. After assembled on shaft, the deep groove ball bearing can make the axial displacement limit of the shaft or shell within the bearing's axial range. Meanwhile, when the shell hole and shaft (or IR to OR) are relatively tilted (within  $8' - 16'$ , according to clearance), the bearing could still work as normal, but the service life is reduced.

## 温度限制

深沟球轴承的允许工作温度取决于：

- 密封件
- 轴承套圈和钢球的尺寸热稳定性
- 保持架

## 允许转速

- 参考转速可以用热参考模式快速评估转速能力
- 极限转速为机械限值，除非轴承设计和应用能适应更高的转速，否则不应该超过这个限值。

## 用途应用

|      |        |
|------|--------|
| 变速箱  | 交通车辆   |
| 仪器仪表 | 农业机械   |
| 电机   | 建筑机械   |
| 家用电器 | 工程机械   |
| 内燃机  | 滚轴式轮滑鞋 |

## Temperature Limitation

The allowable operating temperature of deep groove ball bearing depends on:

- The seals
- Dimensional thermal stability of bearing rings and steel balls
- Cage

## Allow the speed

- Reference speed can be rapidly evaluated by using thermal reference mode
- The limit speed is a mechanical limit which should not be exceeded unless the bearing design and application can adapt to higher speeds.

## Use the application

Gearbox; Instruments and meters;  
The motor; Household appliances;  
The internal combustion engine;  
Traffic vehicles; Agricultural machinery; Construction machinery;  
Construction machinery; Roller skates



60系列 SERIES

| Bearingno<br>轴承型号 | Boundary Dimensions (mm) 外形尺寸 |         |           | Speed Rating(ipm)<br>极限转速 |                        | Load Rating<br>额定载荷 (kn) |                   | 单个重量<br>Weight (kg) |
|-------------------|-------------------------------|---------|-----------|---------------------------|------------------------|--------------------------|-------------------|---------------------|
|                   | d<br>内径                       | D<br>外径 | B<br>内圈宽度 | Grease lubrication<br>脂润滑 | Oil lubrication<br>油润滑 | Dynamic Cr<br>动载荷        | Static Cor<br>静载荷 |                     |
| 6000              | 10                            | 26      | 8         | 22000                     | 30000                  | 4.55                     | 1.97              | 0.019               |
| 6001              | 12                            | 28      | 8         | 20000                     | 26000                  | 5.1                      | 2.38              | 0.022               |
| 6002              | 15                            | 32      | 9         | 19000                     | 24000                  | 5.58                     | 2.85              | 0.03                |
| 6003              | 17                            | 35      | 10        | 17000                     | 21000                  | 6                        | 3.25              | 0.04                |
| 6004              | 20                            | 42      | 12        | 16000                     | 19000                  | 9.38                     | 5.02              | 0.069               |
| 6005              | 25                            | 47      | 12        | 15000                     | 18000                  | 10.1                     | 5.85              | 0.08                |
| 6006              | 30                            | 55      | 13        | 13000                     | 15000                  | 13.2                     | 8.3               | 0.116               |
| 6007              | 35                            | 62      | 14        | 11000                     | 13000                  | 16                       | 10.3              | 0.155               |
| 6008              | 40                            | 68      | 15        | 9000                      | 11000                  | 17                       | 11.8              | 0.185               |
| 6009              | 45                            | 75      | 16        | 8000                      | 10000                  | 21                       | 14.8              | 0.23                |
| 6010              | 50                            | 80      | 16        | 7000                      | 9000                   | 22.05                    | 16.21             | 0.25                |
| 6011              | 55                            | 90      | 18        | 7000                      | 8500                   | 30.2                     | 21.8              | 0.362               |
| 6012              | 60                            | 95      | 18        | 6300                      | 7500                   | 31.65                    | 24.22             | 0.385               |
| 6013              | 65                            | 100     | 18        | 6000                      | 7000                   | 32                       | 24.72             | 0.41                |
| 6014              | 70                            | 110     | 20        | 5000                      | 6700                   | 38.5                     | 30.5              | 0.575               |
| 6015              | 75                            | 115     | 20        | 5300                      | 6300                   | 40.2                     | 33.2              | 0.603               |
| 6016              | 80                            | 125     | 22        | 5000                      | 6000                   | 47.5                     | 39.8              | 0.821               |
| 6017              | 85                            | 130     | 22        | 4500                      | 5600                   | 50.8                     | 42.8              | 0.848               |
| 6018              | 90                            | 140     | 24        | 4300                      | 5300                   | 58                       | 49.8              | 1.1                 |
| 6019              | 95                            | 145     | 24        | 4000                      | 5000                   | 57.8                     | 50                | 1.15                |
| 6020              | 100                           | 150     | 24        | 3800                      | 4800                   | 64.5                     | 56.2              | 1.18                |
| 6022              | 110                           | 170     | 28        | 3400                      | 4300                   | 81.8                     | 72.8              | 1.89                |
| 6024              | 120                           | 180     | 28        | 3000                      | 3800                   | 87.5                     | 79.2              | 1.99                |
| 6026              | 130                           | 200     | 33        | 2800                      | 3600                   | 105                      | 96.8              | 3.08                |
| 6028              | 140                           | 210     | 33        | 2400                      | 3200                   | 116                      | 108               | 3.17                |
| 6030              | 150                           | 225     | 35        | 2200                      | 3000                   | 132                      | 125               | 3.9                 |
| 6032              | 160                           | 240     | 38        | 2000                      | 2800                   | 145                      | 138               | 4.83                |
| 6034              | 170                           | 260     | 42        | 1900                      | 2600                   | 170                      | 170               | 6.5                 |
| 6036              | 180                           | 280     | 46        | 1300                      | 2400                   | 188                      | 198               | 8.51                |

60系列 SERIES

| Bearingno<br>轴承型号 | Boundary Dimensions (mm) 外形尺寸 |         |           | Speed Rating(ipm)<br>极限转速 |                        | Load Rating<br>额定载荷 (kn) |                   | 单个重量<br>Weight (kg) |
|-------------------|-------------------------------|---------|-----------|---------------------------|------------------------|--------------------------|-------------------|---------------------|
|                   | d<br>内径                       | D<br>外径 | B<br>内圈宽度 | Grease lubrication<br>脂润滑 | Oil lubrication<br>油润滑 | Dynamic Cr<br>动载荷        | Static Cor<br>静载荷 |                     |
| 6038              | 190                           | 290     | 46        | 1700                      | 2200                   | 188                      | 200               | 8.865               |
| 6040              | 200                           | 310     | 51        | 1600                      | 2000                   | 205                      | 225               | 11.64               |
| 6044              | 220                           | 340     | 56        | 1400                      | 1800                   | 252                      | 268               | 18                  |
| 6048              | 240                           | 360     | 56        | 1200                      | 1600                   | 270                      | 292               | 20                  |
| 6052              | 260                           | 400     | 65        | 1100                      | 1500                   | 292                      | 372               | 28.8                |
| 6056              | 280                           | 420     | 65        | 950                       | 1300                   | 305                      | 408               | 32.1                |
| 6060              | 300                           | 460     | 74        | 930                       | 1200                   | 358                      | 500               | 42.8                |
| 6064              | 320                           | 480     | 74        | 900                       | 1100                   | 345                      | 513               | 48.4                |
| 6068              | 340                           | 520     | 82        | 800                       | 1000                   | 423                      | 640               | 67.2                |
| 6072              | 360                           | 540     | 82        | 750                       | 950                    | 400                      | 622               | 68                  |
| 6076              | 380                           | 560     | 82        | 700                       | 900                    | 436                      | 695               | 75                  |
| 6080              | 400                           | 600     | 90        | 680                       | 800                    | 512                      | 868               | 89.4                |
| 6084              | 420                           | 620     | 90        | 630                       | 750                    | 507                      | 880               | 98                  |
| 6088              | 440                           | 650     | 94        | 600                       | 700                    | 553                      | 965               | 107                 |
| 6092              | 460                           | 680     | 100       | 580                       | 640                    | 592                      | 1060              | 130                 |
| 6096              | 480                           | 700     | 100       | 550                       | 610                    | 618                      | 1140              | 132                 |
| 60/500            | 500                           | 720     | 100       | 520                       | 580                    | 415                      | 1020              | 135                 |
| 60/530            | 530                           | 780     | 112       | 490                       | 530                    | 650                      | 1270              | 186                 |
| 60/560            | 560                           | 820     | 115       | 460                       | 510                    | 663                      | 1370              | 208                 |
| 60/600            | 600                           | 870     | 118       | 420                       | 470                    | 728                      | 1500              | 257                 |
| 60/630            | 630                           | 920     | 128       | 400                       | 430                    | 819                      | 1760              | 303                 |
| 60/670            | 670                           | 980     | 136       | 370                       | 370                    | 904                      | 2040              | 348                 |
| 60/710            | 710                           | 1030    | 140       | 340                       | 350                    | 956                      | 2200              | 390                 |
| 60/750            | 750                           | 1090    | 150       | 310                       | 310                    | 995                      | 2360              | 420                 |
| 60/800            | 800                           | 1150    | 155       | 290                       | 290                    | 1010                     | 2550              | 470                 |
| 60/850            | 850                           | 1220    | 650       | 260                       | 240                    | 1120                     | 2900              | 503                 |
| 60/900            | 900                           | 1280    | 170       | 230                       | 220                    | 1140                     | 3100              | 579                 |
| 60/1000           | 1000                          | 1420    | 185       | 200                       | 180                    | 1350                     | 3900              | 602                 |
| 60/1060           | 1060                          | 1500    | 195       | 190                       | 140                    | 1530                     | 4500              | 636                 |
| 60/1120           | 1120                          | 1580    | 200       | 140                       | 100                    | 1460                     | 4400              | 690                 |





62系列 SERIES

| Bearingno<br>轴承型号 | Boundary Dimensions (mm) 外形尺寸 |         |           | Speed Rating(ipm)<br>极限转速 |                        | Load Rating<br>额定载荷 (kn) |                   | 单个重量<br>Weight (kg) |
|-------------------|-------------------------------|---------|-----------|---------------------------|------------------------|--------------------------|-------------------|---------------------|
|                   | d<br>内径                       | D<br>外径 | B<br>内圈宽度 | Grease lubrication<br>脂润滑 | Oil lubrication<br>油润滑 | Dynamic Cr<br>动载荷        | Static Cor<br>静载荷 |                     |
| 6200              | 10                            | 30      | 9         | 20000                     | 26000                  | 5.1                      | 2.38              | 0.032               |
| 6201              | 12                            | 32      | 10        | 19000                     | 24000                  | 6.82                     | 3.05              | 0.037               |
| 6202              | 15                            | 35      | 11        | 18000                     | 22000                  | 7.65                     | 3.72              | 0.045               |
| 6203              | 17                            | 40      | 12        | 16000                     | 20000                  | 9.58                     | 4.78              | 0.065               |
| 6204              | 20                            | 47      | 14        | 14000                     | 18000                  | 12.8                     | 6.65              | 0.106               |
| 6205              | 25                            | 52      | 15        | 13000                     | 15000                  | 14                       | 7.85              | 0.128               |
| 6206              | 30                            | 62      | 16        | 11000                     | 13000                  | 19.5                     | 11.3              | 0.199               |
| 6207              | 35                            | 72      | 17        | 9200                      | 11000                  | 25.7                     | 15.4              | 0.288               |
| 6208              | 40                            | 80      | 18        | 8000                      | 10000                  | 29.5                     | 18                | 0.368               |
| 6209              | 45                            | 85      | 19        | 7000                      | 9000                   | 31.5                     | 20.5              | 0.416               |
| 6210              | 50                            | 90      | 20        | 6700                      | 8500                   | 35                       | 23.2              | 0.463               |
| 6211              | 55                            | 100     | 21        | 6000                      | 7500                   | 43.5                     | 29.2              | 0.6                 |
| 6212              | 60                            | 110     | 22        | 5600                      | 7000                   | 47.8                     | 32.8              | 0.78                |
| 6213              | 65                            | 120     | 23        | 5000                      | 6300                   | 57.2                     | 40                | 0.99                |
| 6214              | 70                            | 125     | 24        | 4800                      | 6000                   | 60.5                     | 45                | 1.08                |
| 6215              | 75                            | 130     | 25        | 4500                      | 5600                   | 66                       | 49.5              | 1.17                |
| 6216              | 80                            | 140     | 26        | 4300                      | 5300                   | 71.5                     | 54.5              | 1.44                |
| 6217              | 85                            | 150     | 28        | 4000                      | 5000                   | 83                       | 63.8              | 1.8                 |
| 6218              | 90                            | 160     | 30        | 3800                      | 4800                   | 95.8                     | 71.5              | 2.17                |
| 6219              | 95                            | 170     | 32        | 3600                      | 4500                   | 108                      | 81.5              | 2.61                |

62系列 SERIES

| Bearingno<br>轴承型号 | Boundary Dimensions (mm) 外形尺寸 |         |           | Speed Rating(ipm)<br>极限转速 |                        | Load Rating<br>额定载荷 (kn) |                   | 单个重量<br>Weight (kg) |
|-------------------|-------------------------------|---------|-----------|---------------------------|------------------------|--------------------------|-------------------|---------------------|
|                   | d<br>内径                       | D<br>外径 | B<br>内圈宽度 | Grease lubrication<br>脂润滑 | Oil lubrication<br>油润滑 | Dynamic Cr<br>动载荷        | Static Cor<br>静载荷 |                     |
| 6220              | 100                           | 180     | 34        | 3400                      | 4300                   | 122                      | 92.8              | 3.2                 |
| 6222              | 110                           | 200     | 38        | 3000                      | 3800                   | 144                      | 117               | 4.42                |
| 6224              | 120                           | 215     | 40        | 2600                      | 3400                   | 155                      | 131               | 5.3                 |
| 6226              | 130                           | 230     | 40        | 2400                      | 3200                   | 165                      | 148               | 6.12                |
| 6228              | 140                           | 250     | 42        | 2000                      | 2800                   | 179                      | 167               | 7.77                |
| 6230              | 150                           | 270     | 45        | 1900                      | 2600                   | 203                      | 199               | 9.78                |
| 6232              | 160                           | 290     | 48        | 1800                      | 2400                   | 215                      | 218               | 12.22               |
| 6234              | 170                           | 310     | 52        | 1700                      | 2200                   | 245                      | 260               | 15.24               |
| 6236              | 180                           | 320     | 52        | 1600                      | 2000                   | 262                      | 285               | 15.51               |
| 6238              | 190                           | 340     | 55        | 1500                      | 1900                   | 285                      | 322               | 18.691              |
| 6240              | 200                           | 360     | 58        | 1400                      | 1800                   | 288                      | 332               | 22.577              |
| 6244              | 220                           | 400     | 65        | 1200                      | 1600                   | 355                      | 365               | 36.5                |
| 6248              | 240                           | 440     | 72        | 1000                      | 1400                   | 358                      | 467               | 53.9                |
| 6252              | 260                           | 480     | 80        | 800                       | 1200                   | 390                      | 530               | 68.3                |
| 6256              | 280                           | 500     | 80        | 700                       | 1000                   | 423                      | 600               | 75.3                |
| 6260              | 300                           | 540     | 85        | 500                       | 800                    | 462                      | 670               | 85.6                |
| 6264              | 320                           | 580     | 92        | 300                       | 600                    | 527                      | 800               | 93.7                |
| 6268              | 340                           | 620     | 92        | 200                       | 400                    | 559                      | 900               | 108.4               |
| 6272              | 360                           | 650     | 95        | 100                       | 200                    | 597                      | 1000              | 120                 |



63系列 SERIES

| Bearingno<br>轴承型号 | Boundary Dimensions (mm) 外形尺寸 |         |           | Speed Rating(ipm)<br>极限转速 |                        | Load Rating<br>额定载荷 (kn) |                   | 单个重量<br>Weight (kg) |
|-------------------|-------------------------------|---------|-----------|---------------------------|------------------------|--------------------------|-------------------|---------------------|
|                   | d<br>内径                       | D<br>外径 | B<br>内圈宽度 | Grease lubrication<br>脂润滑 | Oil lubrication<br>油润滑 | Dynamic Cr<br>动载荷        | Static Cor<br>静载荷 |                     |
| 6300              | 10                            | 35      | 11        | 18000                     | 24000                  | 7.65                     | 3.48              | 0.053               |
| 6301              | 12                            | 37      | 12        | 17000                     | 22000                  | 9.72                     | 5.08              | 0.06                |
| 6302              | 15                            | 42      | 13        | 16000                     | 20000                  | 11.5                     | 5.42              | 0.082               |
| 6303              | 17                            | 47      | 14        | 15000                     | 18000                  | 13.5                     | 6.58              | 0.115               |
| 6304              | 20                            | 52      | 15        | 13000                     | 16000                  | 15.8                     | 7.88              | 0.142               |
| 6305              | 25                            | 62      | 17        | 11000                     | 13000                  | 20.6                     | 11.3              | 0.232               |
| 6306              | 30                            | 72      | 19        | 6600                      | 12000                  | 26.7                     | 15                | 0.346               |
| 6307              | 35                            | 80      | 21        | 8500                      | 10000                  | 33.4                     | 19.3              | 0.457               |
| 6308              | 40                            | 90      | 23        | 7000                      | 8500                   | 40.8                     | 24                | 0.639               |
| 6309              | 45                            | 100     | 25        | 6300                      | 7500                   | 52.8                     | 31.8              | 0.837               |
| 6310              | 50                            | 110     | 27        | 6300                      | 7500                   | 62                       | 38                | 1.07                |
| 6311              | 55                            | 120     | 29        | 5600                      | 6700                   | 71.5                     | 45                | 1.39                |
| 6312              | 60                            | 130     | 31        | 5300                      | 6300                   | 82                       | 48.5              | 1.71                |
| 6313              | 65                            | 140     | 33        | 4800                      | 5600                   | 92.5                     | 59.5              | 2.1                 |
| 6314              | 70                            | 150     | 35        | 4500                      | 5300                   | 104                      | 68                | 2.55                |
| 6315              | 75                            | 160     | 37        | 4300                      | 5000                   | 113                      | 116               | 3.1                 |
| 6316              | 80                            | 170     | 39        | 3800                      | 4500                   | 119                      | 86.5              | 3.64                |
| 6317              | 85                            | 180     | 41        | 3800                      | 4500                   | 102                      | 96.5              | 4.33                |

63系列 SERIES

| Bearingno<br>轴承型号 | Boundary Dimensions (mm) 外形尺寸 |         |           | Speed Rating(ipm)<br>极限转速 |                        | Load Rating<br>额定载荷 (kn) |                   | 单个重量<br>Weight (kg) |
|-------------------|-------------------------------|---------|-----------|---------------------------|------------------------|--------------------------|-------------------|---------------------|
|                   | d<br>内径                       | D<br>外径 | B<br>内圈宽度 | Grease lubrication<br>脂润滑 | Oil lubrication<br>油润滑 | Dynamic Cr<br>动载荷        | Static Cor<br>静载荷 |                     |
| 6318              | 90                            | 190     | 43        | 3400                      | 4000                   | 144                      | 108               | 4.97                |
| 6319              | 95                            | 200     | 45        | 3200                      | 3800                   | 152                      | 122               | 5.65                |
| 6320              | 100                           | 215     | 47        | 2800                      | 3600                   | 173                      | 140               | 7.09                |
| 6322              | 110                           | 240     | 50        | 2400                      | 3000                   | 205                      | 178               | 9.53                |
| 6324              | 120                           | 260     | 55        | 2200                      | 2800                   | 228                      | 208               | 12.2                |
| 6326              | 130                           | 280     | 58        | 2000                      | 2600                   | 253                      | 242               | 14.77               |
| 6328              | 140                           | 300     | 62        | 1900                      | 2400                   | 275                      | 272               | 18.33               |
| 6330              | 150                           | 320     | 65        | 1700                      | 2200                   | 288                      | 295               | 21.87               |
| 6332              | 160                           | 340     | 68        | 1600                      | 2000                   | 313                      | 340               | 26.43               |
| 6334              | 170                           | 360     | 72        | 1500                      | 1900                   | 335                      | 378               | 31.14               |
| 6336              | 180                           | 380     | 75        | 1400                      | 1800                   | 358                      | 396               | 35.23               |
| 6338              | 190                           | 400     | 78        | 1300                      | 1700                   | 379                      | 438               | 39.45               |
| 6340              | 200                           | 420     | 80        | 1200                      | 1600                   | 391                      | 496               | 46.89               |
| 6344              | 220                           | 460     | 88        | 1100                      | 1500                   | 410                      | 520               | 52.45               |
| 6348              | 240                           | 500     | 95        | 1000                      | 1400                   | 442                      | 585               | 59.46               |
| 6352              | 260                           | 540     | 102       | 900                       | 1300                   | 507                      | 710               | 64.23               |
| 6356              | 280                           | 580     | 108       | 800                       | 1200                   | 572                      | 850               | 73.67               |
| 6360              | 300                           | 620     | 109       | 700                       | 1100                   | 590                      | 920               | 85.34               |

64系列 SERIES

| Bearingno<br>轴承型号 | Boundary Dimensions (mm) 外形尺寸 |         |           | Speed Rating(ipm)<br>极限转速    |                        | Load Rating<br>额定载荷 (kn) |                      | 单个重量<br>Weight (kg) |
|-------------------|-------------------------------|---------|-----------|------------------------------|------------------------|--------------------------|----------------------|---------------------|
|                   | d<br>内径                       | D<br>外径 | B<br>内圈宽度 | Grease<br>lubrication<br>脂润滑 | Oil lubrication<br>油润滑 | Dynamic<br>Cr<br>动载荷     | Static<br>Cor<br>静载荷 |                     |
| 6403              | 17                            | 62      | 17        | 11000                        | 15000                  | 22.7                     | 10.8                 | 0.27                |
| 6404              | 20                            | 72      | 19        | 9500                         | 13000                  | 31                       | 15.2                 | 0.4                 |
| 6405              | 25                            | 80      | 21        | 9100                         | 11000                  | 36.1                     | 19.4                 | 0.53                |
| 6406              | 30                            | 90      | 23        | 8100                         | 9700                   | 43.4                     | 23.9                 | 0.735               |
| 6407              | 35                            | 100     | 25        | 7200                         | 8600                   | 55                       | 31                   | 0.952               |
| 6408              | 40                            | 110     | 27        | 6300                         | 8000                   | 65.5                     | 37.5                 | 1.221               |
| 6409              | 45                            | 120     | 29        | 5600                         | 7000                   | 77.5                     | 45.5                 | 1.520               |
| 6410              | 50                            | 130     | 31        | 5300                         | 6300                   | 92                       | 55                   | 1.855               |
| 6411              | 55                            | 140     | 33        | 5000                         | 6000                   | 100                      | 62                   | 2.31                |
| 6412              | 60                            | 150     | 35        | 4800                         | 5600                   | 109                      | 70                   | 2.78                |
| 6413              | 65                            | 160     | 37        | 4500                         | 6300                   | 118                      | 78.5                 | 3.25                |
| 6414              | 70                            | 180     | 42        | 3800                         | 4500                   | 143                      | 103                  | 4.73                |
| 6415              | 75                            | 190     | 45        | 3600                         | 4300                   | 153                      | 114                  | 5.57                |
| 6416              | 80                            | 200     | 48        | 3400                         | 4000                   | 164                      | 125                  | 6.63                |
| 6417              | 85                            | 210     | 52        | 3200                         | 3800                   | 165                      | 136                  | 8.12                |
| 6418              | 90                            | 225     | 54        | 3000                         | 3600                   | 193                      | 158                  | 9.47                |
| 6419              | 95                            | 240     | 55        | 2800                         | 3600                   | 204                      | 171                  | 13.4                |
| 6420              | 100                           | 250     | 58        | 2600                         | 3400                   | 224                      | 195                  | 12.8                |
| 6422              | 110                           | 280     | 65        | 2000                         | 2800                   | 225                      | 238                  | 18.3                |
| 6426              | 130                           | 340     | 78        | 1800                         | 2600                   | 246                      | 278                  | 33.7                |
| 6428              | 140                           | 360     | 82        | 1600                         | 2400                   | 278                      | 345                  | 45.7                |
| 6430              | 150                           | 380     | 85        | 1400                         | 2200                   | 291                      | 478                  | 59.3                |



深沟球轴承径向游隙是将其内圈固定时，使外圈做径向移动时产生的移动量。  
Radial clearance of deep groove ball bearing is the amount of movement that occurs when the inner ring is fixed and the outer ring is moved radially.

| 深沟球轴承径向游隙（无负荷） Radial clearance (no load) |         |     |     |     |     |     |     |     |      |     |      |
|-------------------------------------------|---------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|
| 公称内径 d mm<br>nominal bore diameter        |         | C2  |     | C0  |     | C3  |     | C4  |      | C5  |      |
| 超过<br>over                                | 到<br>to | min | max | min | max | min | max | min | max  | min | max  |
| 2.5                                       | 6       | 0   | 7   | 2   | 13  | 8   | 23  | —   | —    | —   | —    |
| 6                                         | 10      | 0   | 7   | 2   | 13  | 8   | 23  | 14  | 29   | 20  | 37   |
| 10                                        | 18      | 0   | 9   | 3   | 18  | 11  | 25  | 18  | 33   | 25  | 45   |
| 18                                        | 24      | 0   | 10  | 5   | 20  | 13  | 28  | 20  | 36   | 28  | 48   |
| 24                                        | 30      | 1   | 11  | 5   | 20  | 13  | 28  | 23  | 41   | 30  | 53   |
| 30                                        | 40      | 1   | 11  | 6   | 20  | 15  | 33  | 28  | 46   | 40  | 64   |
| 40                                        | 50      | 1   | 11  | 6   | 23  | 18  | 36  | 30  | 51   | 45  | 73   |
| 50                                        | 65      | 1   | 15  | 8   | 28  | 23  | 43  | 38  | 61   | 55  | 90   |
| 65                                        | 80      | 1   | 15  | 10  | 30  | 25  | 51  | 46  | 71   | 65  | 105  |
| 80                                        | 100     | 1   | 18  | 12  | 36  | 30  | 58  | 53  | 84   | 75  | 120  |
| 100                                       | 120     | 2   | 20  | 15  | 41  | 36  | 66  | 61  | 97   | 90  | 140  |
| 120                                       | 140     | 2   | 23  | 18  | 48  | 41  | 81  | 71  | 114  | 105 | 160  |
| 140                                       | 160     | 2   | 23  | 18  | 53  | 46  | 91  | 81  | 130  | 120 | 180  |
| 160                                       | 180     | 2   | 25  | 20  | 61  | 53  | 102 | 91  | 147  | 135 | 200  |
| 180                                       | 200     | 2   | 30  | 25  | 71  | 63  | 117 | 107 | 163  | 150 | 230  |
| 200                                       | 225     | 2   | 35  | 25  | 85  | 75  | 140 | 125 | 195  | 175 | 265  |
| 225                                       | 250     | 2   | 40  | 30  | 95  | 85  | 160 | 145 | 225  | 205 | 300  |
| 250                                       | 280     | 2   | 45  | 35  | 105 | 90  | 170 | 155 | 245  | 225 | 340  |
| 280                                       | 315     | 2   | 55  | 40  | 115 | 100 | 190 | 175 | 270  | 245 | 370  |
| 315                                       | 355     | 3   | 60  | 45  | 125 | 110 | 210 | 195 | 300  | 275 | 410  |
| 355                                       | 400     | 3   | 70  | 55  | 145 | 130 | 240 | 225 | 340  | 315 | 460  |
| 400                                       | 450     | 3   | 80  | 60  | 170 | 150 | 270 | 250 | 380  | 350 | 520  |
| 450                                       | 500     | 3   | 90  | 70  | 190 | 170 | 300 | 280 | 420  | 390 | 570  |
| 500                                       | 560     | 10  | 100 | 80  | 210 | 190 | 330 | 310 | 470  | 440 | 630  |
| 560                                       | 630     | 10  | 110 | 90  | 230 | 210 | 360 | 340 | 520  | 490 | 700  |
| 630                                       | 710     | 20  | 130 | 110 | 260 | 240 | 400 | 380 | 570  | 540 | 780  |
| 710                                       | 800     | 20  | 140 | 120 | 290 | 270 | 450 | 430 | 630  | 600 | 860  |
| 800                                       | 900     | 20  | 160 | 140 | 320 | 300 | 500 | 480 | 700  | 670 | 960  |
| 900                                       | 1000    | 20  | 170 | 150 | 350 | 330 | 550 | 530 | 770  | 740 | 1040 |
| 1000                                      | 1120    | 20  | 180 | 160 | 380 | 360 | 600 | 580 | 850  | 820 | 1150 |
| 1120                                      | 1250    | 20  | 190 | 170 | 410 | 390 | 650 | 630 | 920  | 890 | 1260 |
| 1250                                      | 1400    | 30  | 200 | 190 | 440 | 420 | 700 | 680 | 1000 | —   | —    |
| 1400                                      | 1600    | 30  | 210 | 210 | 470 | 450 | 750 | 730 | 1060 | —   | —    |



轴承振动值 Bearing Vibration Value



深沟球轴承振动（加速度）值用Z、Z1、Z2、Z3、Z4组表示，用S0910仪器来检测。  
深沟球轴承振动（速度）值用V1、V2、V3、V4组表示，用BVT-1A仪器来检测。

| 公称<br>内径<br>Nominal<br>bore<br>diameter<br>(mm) | 0直径系列<br>0 diameter series |    |    |    |    | 2直径系列<br>2 diameter series |    |    |    |    | 3直径系列<br>3 diameter series |    |    |    |    |
|-------------------------------------------------|----------------------------|----|----|----|----|----------------------------|----|----|----|----|----------------------------|----|----|----|----|
|                                                 | Z                          | Z1 | Z2 | Z3 | Z4 | Z                          | Z1 | Z2 | Z3 | Z4 | Z                          | Z1 | Z2 | Z3 | Z4 |
| 3                                               | 35                         | 34 | 32 | 28 | 24 | 36                         | 35 | 32 | 30 | 26 | 37                         | 36 | 33 | 31 | 27 |
| 4                                               | 35                         | 34 | 32 | 28 | 24 | 36                         | 35 | 32 | 30 | 26 | 37                         | 36 | 33 | 31 | 27 |
| 5                                               | 37                         | 36 | 34 | 30 | 26 | 38                         | 37 | 34 | 32 | 28 | 39                         | 37 | 35 | 33 | 29 |
| 6                                               | 37                         | 36 | 34 | 30 | 26 | 38                         | 37 | 34 | 32 | 28 | 39                         | 37 | 35 | 33 | 29 |
| 7                                               | 39                         | 36 | 35 | 31 | 27 | 40                         | 38 | 36 | 34 | 29 | 41                         | 39 | 37 | 35 | 30 |
| 8                                               | 39                         | 36 | 35 | 31 | 27 | 40                         | 38 | 36 | 34 | 29 | 41                         | 39 | 37 | 35 | 30 |
| 9                                               | 41                         | 40 | 36 | 32 | 28 | 42                         | 40 | 37 | 35 | 30 | 43                         | 41 | 39 | 37 | 32 |
| 10                                              | 43                         | 42 | 38 | 33 | 28 | 44                         | 42 | 39 | 35 | 30 | 46                         | 44 | 40 | 37 | 32 |
| 12                                              | 44                         | 43 | 39 | 34 | 29 | 45                         | 43 | 39 | 35 | 30 | 47                         | 45 | 40 | 37 | 32 |
| 15                                              | 45                         | 44 | 40 | 35 | 30 | 46                         | 44 | 41 | 36 | 31 | 48                         | 46 | 42 | 38 | 33 |
| 17                                              | 46                         | 44 | 40 | 35 | 30 | 47                         | 45 | 41 | 36 | 31 | 49                         | 47 | 42 | 38 | 33 |
| 20                                              | 47                         | 45 | 41 | 36 | 31 | 48                         | 46 | 42 | 48 | 33 | 50                         | 48 | 43 | 39 | 34 |
| 22                                              | 47                         | 45 | 41 | 36 | 31 | 48                         | 46 | 42 | 48 | 33 | 50                         | 48 | 43 | 39 | 34 |
| 25                                              | 48                         | 46 | 42 | 38 | 34 | 49                         | 47 | 43 | 50 | 36 | 51                         | 49 | 44 | 41 | 37 |
| 28                                              | 49                         | 47 | 43 | 39 | 35 | 50                         | 48 | 44 | 51 | 37 | 52                         | 50 | 45 | 42 | 38 |
| 30                                              | 49                         | 47 | 43 | 39 | 35 | 50                         | 48 | 44 | 51 | 37 | 52                         | 50 | 45 | 42 | 38 |
| 32                                              | 50                         | 48 | 44 | 40 | 36 | 51                         | 49 | 45 | 12 | 38 | 53                         | 51 | 46 | 43 | 39 |
| 35                                              | 51                         | 49 | 45 | 41 | 37 | 52                         | 50 | 46 | 13 | 39 | 54                         | 52 | 47 | 44 | 40 |
| 40                                              | 53                         | 51 | 46 | 42 | 38 | 54                         | 54 | 47 | 44 | 40 | 56                         | 54 | 49 | 45 | 41 |
| 45                                              | 55                         | 53 | 48 | 45 | 42 | 56                         | 52 | 49 | 46 | 43 | 58                         | 56 | 51 | 47 | 44 |
| 50                                              | 57                         | 54 | 50 | 47 | 44 | 58                         | 55 | 51 | 48 | 45 | 60                         | 57 | 53 | 49 | 48 |
| 55                                              | 59                         | 58 | 52 | 49 | 46 | 60                         | 57 | 53 | 50 | 47 | 62                         | 59 | 54 | 51 | 48 |
| 60                                              | 61                         | 58 | 54 | 51 | 48 | 62                         | 59 | 54 | 51 | 48 | 64                         | 61 | 56 | 53 | 50 |
| 65                                              | 49                         | 46 | 46 | 41 |    | 50                         | 49 | 47 | 42 |    | 51                         | 50 | 48 | 43 |    |
| 70                                              | 50                         | 49 | 47 | 42 |    | 51                         | 50 | 48 | 43 |    | 52                         | 51 | 49 | 44 |    |
| 75                                              | 51                         | 50 | 48 | 43 |    | 52                         | 51 | 49 | 44 |    | 53                         | 52 | 50 | 45 |    |
| 80                                              | 52                         | 51 | 49 | 44 |    | 53                         | 52 | 50 | 45 |    | 54                         | 53 | 51 | 46 |    |
| 85                                              | 53                         | 52 | 50 | 45 |    | 54                         | 53 | 51 | 46 |    | 56                         | 55 | 52 | 47 |    |
| 90                                              | 54                         | 53 | 52 | 47 |    | 56                         | 55 | 53 | 48 |    | 58                         | 57 | 54 | 49 |    |
| 95                                              | 56                         | 55 | 54 | 49 |    | 58                         | 57 | 55 | 50 |    | 60                         | 59 | 56 | 51 |    |
| 100                                             | 58                         | 57 | 58 | 51 |    | 60                         | 59 | 57 | 52 |    | 62                         | 61 | 58 | 53 |    |
| 105                                             | 60                         | 59 | 58 | 53 |    | 62                         | 61 | 59 | 54 |    | 64                         | 63 | 60 | 55 |    |
| 110                                             | 62                         | 61 | 60 | 55 |    | 64                         | 63 | 61 | 56 |    | 66                         | 65 | 62 | 57 |    |
| 120                                             | 64                         | 63 | 62 | 57 |    | 66                         | 65 | 63 | 58 |    | 68                         | 67 | 64 | 59 |    |

The vibration (acceleration) value of deep groove ball bearing is expressed by Z, Z1, Z2, Z3 and Z4 groups, and is detected by S0910 instrument.  
Deep groove ball bearingThe bearing vibration (velocity) value is expressed in groups of V1, V2, V3 and V4, and is detected by bvt-1a instrument.

| 公称<br>内径<br>Nominal<br>bore<br>diameter<br>(mm) | V1                     |                                 |                         | V2                     |                                 |                         | V3                     |                                 |                         | V4                     |                                 |                         |
|-------------------------------------------------|------------------------|---------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|
|                                                 | 低频<br>Low<br>frequency | 中频<br>Intermediate<br>frequency | 高频<br>High<br>frequency | 低频<br>Low<br>frequency | 中频<br>Intermediate<br>frequency | 高频<br>High<br>frequency | 低频<br>Low<br>frequency | 中频<br>Intermediate<br>frequency | 高频<br>High<br>frequency | 低频<br>Low<br>frequency | 中频<br>Intermediate<br>frequency | 高频<br>High<br>frequency |
| 3                                               | 60                     | 35                              | 32                      | 48                     | 26                              | 22                      | 31                     | 16                              | 15                      | 28                     | 10                              | 10                      |
| 4                                               | 60                     | 35                              | 32                      | 48                     | 26                              | 22                      | 31                     | 16                              | 15                      | 28                     | 10                              | 10                      |
| 5                                               | 74                     | 48                              | 40                      | 58                     | 36                              | 30                      | 35                     | 21                              | 18                      | 32                     | 11                              | 11                      |
| 6                                               | 74                     | 48                              | 40                      | 58                     | 36                              | 30                      | 35                     | 21                              | 18                      | 32                     | 11                              | 11                      |
| 7                                               | 92                     | 66                              | 54                      | 72                     | 48                              | 40                      | 44                     | 28                              | 24                      | 38                     | 12                              | 12                      |
| 8                                               | 92                     | 66                              | 54                      | 72                     | 48                              | 40                      | 44                     | 28                              | 24                      | 38                     | 12                              | 12                      |
| 9                                               | 92                     | 66                              | 54                      | 72                     | 48                              | 40                      | 44                     | 28                              | 24                      | 38                     | 12                              | 12                      |
| 10                                              | 120                    | 80                              | 70                      | 90                     | 60                              | 50                      | 55                     | 35                              | 30                      | 45                     | 14                              | 15                      |
| 12                                              | 120                    | 80                              | 70                      | 90                     | 60                              | 50                      | 55                     | 35                              | 30                      | 45                     | 14                              | 15                      |
| 15                                              | 150                    | 100                             | 85                      | 110                    | 78                              | 60                      | 65                     | 46                              | 35                      | 52                     | 18                              | 18                      |
| 17                                              | 150                    | 100                             | 85                      | 110                    | 76                              | 60                      | 65                     | 46                              | 35                      | 52                     | 25                              | 25                      |
| 20                                              | 180                    | 125                             | 100                     | 130                    | 100                             | 75                      | 80                     | 60                              | 45                      | 60                     | 25                              | 25                      |
| 22                                              | 180                    | 125                             | 100                     | 130                    | 100                             | 75                      | 80                     | 60                              | 45                      | 60                     | 30                              | 32                      |
| 25                                              | 180                    | 125                             | 100                     | 130                    | 100                             | 75                      | 80                     | 60                              | 45                      | 60                     | 30                              | 32                      |
| 28                                              | 180                    | 125                             | 100                     | 130                    | 100                             | 75                      | 80                     | 60                              | 45                      | 60                     | 35                              | 40                      |
| 30                                              | 200                    | 150                             | 130                     | 150                    | 120                             | 100                     | 90                     | 75                              | 60                      | 60                     | 35                              | 40                      |
| 32                                              | 200                    | 150                             | 130                     | 150                    | 120                             | 100                     | 90                     | 75                              | 60                      | 70                     | 35                              | 40                      |
| 35                                              | 200                    | 150                             | 130                     | 150                    | 120                             | 100                     | 90                     | 75                              | 60                      | 70                     | 42                              | 45                      |
| 40                                              | 240                    | 180                             | 160                     | 180                    | 150                             | 130                     | 110                    | 90                              | 80                      | 82                     | 50                              | 50                      |
| 45                                              | 240                    | 180                             | 160                     | 180                    | 150                             | 130                     | 110                    | 90                              | 80                      | 82                     | 60                              | 60                      |
| 50                                              | 280                    | 200                             | 200                     | 210                    | 160                             | 160                     | 125                    | 100                             | 100                     | 95                     | 70                              | 70                      |
| 55                                              | 280                    | 220                             | 200                     | 210                    | 180                             | 180                     | 125                    | 110                             | 110                     | 95                     | 70                              | 70                      |
| 60                                              | 320                    | 220                             | 240                     | 240                    | 180                             | 200                     | 145                    | 110                             | 130                     | 100                    | 80                              | 80                      |
| 65                                              | 160                    | 160                             | 240                     | 130                    | 100                             | 150                     | 105                    | 80                              | 105                     | 50                     | 50                              | 75                      |
| 70                                              | 200                    | 180                             | 280                     | 150                    | 120                             | 200                     | 110                    | 90                              | 135                     | 58                     | 58                              | 88                      |
| 75                                              | 200                    | 180                             | 280                     | 150                    | 120                             | 200                     | 110                    | 90                              | 135                     | 58                     | 58                              | 88                      |
| 80                                              | 240                    | 210                             | 320                     | 180                    | 120                             | 240                     | 130                    | 110                             | 160                     | 65                     | 65                              | 100                     |
| 85                                              | 240                    | 210                             | 320                     | 180                    | 150                             | 240                     | 130                    | 110                             | 160                     | 65                     | 65                              | 100                     |
| 90                                              | 290                    | 250                             | 370                     | 210                    | 180                             | 270                     | 145                    | 125                             | 180                     | 75                     | 75                              | 115                     |
| 95                                              | 290                    | 250                             | 370                     | 210                    | 180                             | 270                     | 145                    | 125                             | 180                     | 75                     | 75                              | 115                     |
| 100                                             | 340                    | 300                             | 420                     | 250                    | 215                             | 310                     | 170                    | 145                             | 200                     | 88                     | 88                              | 135                     |
| 105                                             | 340                    | 300                             | 420                     | 250                    | 215                             | 310                     | 170                    | 145                             | 200                     | 88                     | 88                              | 135                     |
| 110                                             | 400                    | 350                             | 480                     | 290                    | 260                             | 350                     | 190                    | 175                             | 225                     | 100                    | 100                             | 160                     |
| 120                                             | 400                    | 350                             | 480                     | 290                    | 260                             | 350                     | 190                    | 175                             | 225                     | 100                    | 100                             | 160                     |



P0

| D<br>mm    |         | 向心轴承外圈的公差 Tolerance of radial bearing outer ring |                           |                        |     |                        |    |                   |     |                  |                                                                                          | 单位(unit) μ m              |                          |  |  |
|------------|---------|--------------------------------------------------|---------------------------|------------------------|-----|------------------------|----|-------------------|-----|------------------|------------------------------------------------------------------------------------------|---------------------------|--------------------------|--|--|
|            |         | ΔDmp                                             |                           | Vdsp <sup>a</sup>      |     |                        |    | Vdmp <sup>a</sup> | Kea | Sea <sup>c</sup> | ΔCs<br>ΔC1s <sup>b</sup>                                                                 |                           | Vcs<br>Vc1s <sup>b</sup> |  |  |
|            |         |                                                  |                           | 开型轴承 Open type bearing |     | 闭型轴承<br>Capped bearing |    |                   |     |                  |                                                                                          |                           |                          |  |  |
|            |         |                                                  |                           | 直径系列 Diameter series   |     |                        |    |                   |     |                  |                                                                                          |                           |                          |  |  |
| 9          | 0、1     | 2、3、4                                            | 2、3、4                     | max                    |     |                        |    | max               | max | max              | 上偏差<br>Upper<br>deviation                                                                | 下偏差<br>Lower<br>deviation | max                      |  |  |
| 超过<br>over | 到<br>to | 上偏差<br>Upper<br>deviation                        | 下偏差<br>Lower<br>deviation |                        |     |                        |    |                   |     |                  |                                                                                          |                           |                          |  |  |
| 0          | 2.5     | 0                                                | -8                        | 10                     | 8   | 6                      | 10 | 6                 | 15  | -                | 与同一轴承内圈<br>的ΔBs及VBs相同<br><br>With the same bearing inner<br>ring at the same ΔBs and Vbs |                           |                          |  |  |
| 2.5        | 6       | 0                                                | -8                        | 10                     | 8   | 6                      | 10 | 6                 | 15  | 24               |                                                                                          |                           |                          |  |  |
| 6          | 18      | 0                                                | -8                        | 10                     | 8   | 6                      | 10 | 6                 | 15  | 30               |                                                                                          |                           |                          |  |  |
| 18         | 30      | 0                                                | -9                        | 12                     | 9   | 7                      | 12 | 7                 | 15  | 40               |                                                                                          |                           |                          |  |  |
| 30         | 50      | 0                                                | -11                       | 14                     | 11  | 8                      | 16 | 8                 | 20  | 40               |                                                                                          |                           |                          |  |  |
| 50         | 80      | 0                                                | -13                       | 16                     | 13  | 10                     | 20 | 10                | 25  | 40               |                                                                                          |                           |                          |  |  |
| 80         | 120     | 0                                                | -15                       | 19                     | 19  | 11                     | 26 | 11                | 35  | 45               |                                                                                          |                           |                          |  |  |
| 120        | 150     | 0                                                | -18                       | 23                     | 23  | 14                     | 30 | 14                | 40  | 50               |                                                                                          |                           |                          |  |  |
| 150        | 180     | 0                                                | -25                       | 31                     | 31  | 19                     | 38 | 19                | 45  | 60               |                                                                                          |                           |                          |  |  |
| 180        | 250     | 0                                                | -30                       | 38                     | 38  | 23                     | -  | 23                | 50  | 70               |                                                                                          |                           |                          |  |  |
| 250        | 315     | 0                                                | -35                       | 44                     | 44  | 26                     | -  | 26                | 60  | 80               |                                                                                          |                           |                          |  |  |
| 315        | 400     | 0                                                | -40                       | 50                     | 50  | 30                     | -  | 30                | 70  | 90               |                                                                                          |                           |                          |  |  |
| 400        | 500     | 0                                                | -45                       | 56                     | 56  | 34                     | -  | 34                | 80  | 100              |                                                                                          |                           |                          |  |  |
| 500        | 630     | 0                                                | -50                       | 63                     | 63  | 38                     | -  | 38                | 100 | 120              |                                                                                          |                           |                          |  |  |
| 630        | 800     | 0                                                | -75                       | 94                     | 94  | 55                     | -  | 55                | 120 | 140              |                                                                                          |                           |                          |  |  |
| 800        | 1000    | 0                                                | -100                      | 125                    | 125 | 75                     | -  | 75                | 140 | 160              |                                                                                          |                           |                          |  |  |
| 1000       | 1250    | 0                                                | -125                      | -                      | -   | -                      | -  | -                 | 160 | -                |                                                                                          |                           |                          |  |  |
| 1250       | 1600    | 0                                                | -160                      | -                      | -   | -                      | -  | -                 | 190 | -                |                                                                                          |                           |                          |  |  |
| 1600       | 2000    | 0                                                | -200                      | -                      | -   | -                      | -  | -                 | 220 | -                |                                                                                          |                           |                          |  |  |
| 2000       | 2500    | 0                                                | -250                      | -                      | -   | -                      | -  | -                 | 250 | -                |                                                                                          |                           |                          |  |  |

a、适用于内、外止动环安装前或拆卸后

b、仅适用于沟型球轴承

A. Applicable to inner and outer stop rings before installation or after disassembly

B. Only applicable to groove ball bearings

| D<br>mm                                                                                                                                                                                               |         | 向心轴承内圈的公差 Tolerance of radial bearing inner ring |                           |                      |     |       |      |     |                  |                           |                           | 单位(unit) μ m                  |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------|---------------------------|----------------------|-----|-------|------|-----|------------------|---------------------------|---------------------------|-------------------------------|-----|
|                                                                                                                                                                                                       |         | ΔDmp                                             |                           | Vdsp                 |     |       | Vdmp | Kia | Sia <sup>b</sup> | ΔBs                       |                           |                               | VBs |
|                                                                                                                                                                                                       |         |                                                  |                           | 直径系列 Diameter series |     |       |      |     |                  | 全部<br>All                 | 正常<br>Normal              | 修正 <sup>a</sup><br>Correction |     |
|                                                                                                                                                                                                       |         |                                                  |                           | 9                    | 0、1 | 2、3、4 |      |     |                  |                           |                           |                               |     |
| 超过<br>over                                                                                                                                                                                            | 到<br>to | 上偏差<br>Upper<br>deviation                        | 下偏差<br>Lower<br>deviation | max                  | max | max   | max  | max | max              | 上偏差<br>Upper<br>deviation | 下偏差<br>Lower<br>deviation | max                           |     |
| 0                                                                                                                                                                                                     | 0.6     | 0                                                | -8                        | 10                   | 8   | 6     | 6    | 10  | -                | 0                         | -40                       | -                             | 12  |
| 0.6                                                                                                                                                                                                   | 2.5     | 0                                                | -8                        | 10                   | 8   | 6     | 6    | 10  | 20               | 0                         | -40                       | -                             | 12  |
| 2.5                                                                                                                                                                                                   | 10      | 0                                                | -8                        | 10                   | 8   | 6     | 6    | 10  | 20               | 0                         | -120                      | -250                          | 15  |
| 10                                                                                                                                                                                                    | 18      | 0                                                | -8                        | 10                   | 8   | 6     | 6    | 10  | 20               | 0                         | -120                      | -250                          | 20  |
| 18                                                                                                                                                                                                    | 30      | 0                                                | -10                       | 13                   | 10  | 8     | 8    | 13  | 24               | 0                         | -120                      | -250                          | 20  |
| 30                                                                                                                                                                                                    | 50      | 0                                                | -12                       | 15                   | 12  | 9     | 9    | 15  | 24               | 0                         | -120                      | -250                          | 20  |
| 50                                                                                                                                                                                                    | 80      | 0                                                | -15                       | 19                   | 19  | 11    | 11   | 20  | 30               | 0                         | -150                      | -380                          | 25  |
| 80                                                                                                                                                                                                    | 120     | 0                                                | -20                       | 25                   | 25  | 15    | 15   | 25  | 30               | 0                         | -200                      | -380                          | 25  |
| 120                                                                                                                                                                                                   | 180     | 0                                                | -25                       | 31                   | 31  | 19    | 19   | 30  | 36               | 0                         | -250                      | -500                          | 30  |
| 180                                                                                                                                                                                                   | 250     | 0                                                | -30                       | 38                   | 38  | 23    | 23   | 40  | 36               | 0                         | -300                      | -500                          | 30  |
| 250                                                                                                                                                                                                   | 315     | 0                                                | -35                       | 44                   | 44  | 26    | 26   | 50  | 42               | 0                         | -350                      | -500                          | 35  |
| 315                                                                                                                                                                                                   | 400     | 0                                                | -40                       | 50                   | 50  | 30    | 30   | 60  | 48               | 0                         | -400                      | -630                          | 40  |
| 400                                                                                                                                                                                                   | 500     | 0                                                | -45                       | 56                   | 56  | 34    | 34   | 65  | 54               | 0                         | -450                      | -                             | 50  |
| 500                                                                                                                                                                                                   | 630     | 0                                                | -50                       | 63                   | 63  | 38    | 38   | 70  | 60               | 0                         | -500                      | -                             | 60  |
| 630                                                                                                                                                                                                   | 800     | 0                                                | -75                       | -                    | -   | -     | -    | 80  | -                | 0                         | -750                      | -                             | 70  |
| 800                                                                                                                                                                                                   | 1000    | 0                                                | -100                      | -                    | -   | -     | -    | 90  | -                | 0                         | -1000                     | -                             | 80  |
| 1000                                                                                                                                                                                                  | 1250    | 0                                                | -125                      | -                    | -   | -     | -    | 100 | -                | 0                         | -1250                     | -                             | 100 |
| 1250                                                                                                                                                                                                  | 1600    | 0                                                | -160                      | -                    | -   | -     | -    | 120 | -                | 0                         | -1600                     | -                             | 120 |
| 1600                                                                                                                                                                                                  | 2000    | 0                                                | -200                      | -                    | -   | -     | -    | 140 | -                | 0                         | -2000                     | -                             | 140 |
| a 适用于成对或成组安装时单个轴承的内外圈，也适用于d≥50mm锥孔轴承的内圈<br>A. It is suitable for inner and outer rings of a single bearing when mounted in pairs or in groups, and also for inner rings of d≥50mm taper bore bearings |         |                                                  |                           |                      |     |       |      |     |                  |                           |                           |                               |     |

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| D<br>mm    |         | 向心轴承外圈的公差 Tolerance of radial bearing outer ring |                           |                        |    |                        |    |                   |     | 单位(unit) μ m     |                                                                                      |                           |                          |  |
|------------|---------|--------------------------------------------------|---------------------------|------------------------|----|------------------------|----|-------------------|-----|------------------|--------------------------------------------------------------------------------------|---------------------------|--------------------------|--|
|            |         | ΔDmp                                             |                           | Vdsp <sup>a</sup>      |    |                        |    | Vdmp <sup>a</sup> | Kea | Sea <sup>c</sup> | ΔCs<br>ΔC1s <sup>b</sup>                                                             |                           | Vcs<br>Vc1s <sup>b</sup> |  |
|            |         |                                                  |                           | 开型轴承 Open type bearing |    | 闭型轴承<br>Capped bearing |    |                   |     |                  |                                                                                      |                           |                          |  |
|            |         |                                                  |                           | 直径系列 Diameter series   |    |                        |    |                   |     |                  |                                                                                      |                           |                          |  |
| 9          | 0、1     | 2、3、4                                            | 0、1、<br>2、3、4             | max                    |    |                        |    | max               | max | max              | 上偏差<br>Upper<br>deviation                                                            | 下偏差<br>Lower<br>deviation | max                      |  |
| 超过<br>over | 到<br>to | 上偏差<br>Upper<br>deviation                        | 下偏差<br>Lower<br>deviation |                        |    |                        |    |                   |     |                  |                                                                                      |                           |                          |  |
| 0          | 2.5     | 0                                                | -7                        | 9                      | 7  | 5                      | 9  | 5                 | 8   | -                | 与同一轴承内圈<br>的ΔBs及VBs相同<br>With the same bearing inner<br>ring at the same ΔBs and Vbs |                           |                          |  |
| 2.5        | 6       | 0                                                | -7                        | 9                      | 7  | 5                      | 9  | 5                 | 8   | 12               |                                                                                      |                           |                          |  |
| 6          | 18      | 0                                                | -7                        | 9                      | 7  | 5                      | 9  | 5                 | 8   | 15               |                                                                                      |                           |                          |  |
| 18         | 30      | 0                                                | -8                        | 10                     | 8  | 6                      | 10 | 6                 | 9   | 20               |                                                                                      |                           |                          |  |
| 30         | 50      | 0                                                | -9                        | 11                     | 9  | 7                      | 13 | 7                 | 10  | 20               |                                                                                      |                           |                          |  |
| 50         | 80      | 0                                                | -11                       | 14                     | 11 | 8                      | 16 | 8                 | 13  | 20               |                                                                                      |                           |                          |  |
| 80         | 120     | 0                                                | -13                       | 16                     | 16 | 10                     | 20 | 10                | 18  | 22               |                                                                                      |                           |                          |  |
| 120        | 150     | 0                                                | -15                       | 19                     | 19 | 11                     | 25 | 11                | 20  | 25               |                                                                                      |                           |                          |  |
| 150        | 180     | 0                                                | -18                       | 23                     | 23 | 14                     | 30 | 14                | 23  | 30               |                                                                                      |                           |                          |  |
| 180        | 250     | 0                                                | -20                       | 25                     | 25 | 15                     | -  | 15                | 25  | 35               |                                                                                      |                           |                          |  |
| 250        | 315     | 0                                                | -25                       | 31                     | 31 | 19                     | -  | 19                | 30  | 40               |                                                                                      |                           |                          |  |
| 315        | 400     | 0                                                | -28                       | 35                     | 35 | 21                     | -  | 21                | 35  | 45               |                                                                                      |                           |                          |  |
| 400        | 500     | 0                                                | -33                       | 41                     | 41 | 25                     | -  | 25                | 40  | 50               |                                                                                      |                           |                          |  |
| 500        | 630     | 0                                                | -38                       | 48                     | 48 | 29                     | -  | 29                | 50  | 60               |                                                                                      |                           |                          |  |
| 630        | 800     | 0                                                | -45                       | 56                     | 56 | 34                     | -  | 34                | 60  | 70               |                                                                                      |                           |                          |  |
| 800        | 1000    | 0                                                | -60                       | 75                     | 75 | 45                     | -  | 45                | 75  | 80               |                                                                                      |                           |                          |  |

a、适用于内、外止动环安装前或拆卸后  
A. Applicable to inner and outer stop rings before installation or after disassembly

b、仅适用于沟型球轴承  
B. Only applicable to groove ball bearings

| D<br>mm                                                                                                                                                                                               |         | 向心轴承内圈的公差 Tolerance of radial bearing inner ring |                           |                      |     |       |      |     |                  |                           |                           | 单位(unit) μ m                  |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------|---------------------------|----------------------|-----|-------|------|-----|------------------|---------------------------|---------------------------|-------------------------------|-----|
|                                                                                                                                                                                                       |         | ΔDmp                                             |                           | Vdsp                 |     |       | Vdmp | Kia | Sia <sup>b</sup> | ΔBs                       |                           |                               | VBs |
|                                                                                                                                                                                                       |         |                                                  |                           | 直径系列 Diameter series |     |       |      |     |                  | 全部<br>All                 | 正常<br>Normal              | 修正 <sup>a</sup><br>Correction |     |
|                                                                                                                                                                                                       |         |                                                  |                           | 9                    | 0、1 | 2、3、4 |      |     |                  |                           |                           |                               |     |
| 超过<br>over                                                                                                                                                                                            | 到<br>to | 上偏差<br>Upper<br>deviation                        | 下偏差<br>Lower<br>deviation | max                  | max | max   | max  | max | max              | 上偏差<br>Upper<br>deviation | 下偏差<br>Lower<br>deviation |                               | max |
| 0                                                                                                                                                                                                     | 0.6     | 0                                                | -7                        | 9                    | 7   | 5     | 5    | 5   | -                | 0                         | -40                       | -                             | 12  |
| 0.6                                                                                                                                                                                                   | 2.5     | 0                                                | -7                        | 9                    | 7   | 5     | 5    | 5   | 10               | 0                         | -40                       | -                             | 12  |
| 2.5                                                                                                                                                                                                   | 10      | 0                                                | -7                        | 9                    | 7   | 5     | 5    | 6   | 10               | 0                         | -120                      | -250                          | 15  |
| 10                                                                                                                                                                                                    | 18      | 0                                                | -7                        | 9                    | 7   | 5     | 5    | 7   | 10               | 0                         | -120                      | -250                          | 20  |
| 18                                                                                                                                                                                                    | 30      | 0                                                | -8                        | 10                   | 8   | 6     | 6    | 8   | 12               | 0                         | -120                      | -250                          | 20  |
| 30                                                                                                                                                                                                    | 50      | 0                                                | -10                       | 13                   | 10  | 8     | 8    | 10  | 12               | 0                         | -120                      | -250                          | 20  |
| 50                                                                                                                                                                                                    | 80      | 0                                                | -12                       | 15                   | 15  | 9     | 9    | 10  | 15               | 0                         | -150                      | -380                          | 25  |
| 80                                                                                                                                                                                                    | 120     | 0                                                | -15                       | 19                   | 19  | 11    | 11   | 13  | 15               | 0                         | -200                      | -380                          | 25  |
| 120                                                                                                                                                                                                   | 180     | 0                                                | -18                       | 23                   | 23  | 14    | 14   | 18  | 18               | 0                         | -250                      | -500                          | 30  |
| 180                                                                                                                                                                                                   | 250     | 0                                                | -22                       | 28                   | 28  | 17    | 17   | 20  | 18               | 0                         | -300                      | -500                          | 30  |
| 250                                                                                                                                                                                                   | 315     | 0                                                | -25                       | 31                   | 31  | 19    | 19   | 25  | 21               | 0                         | -350                      | -500                          | 35  |
| 315                                                                                                                                                                                                   | 400     | 0                                                | -30                       | 38                   | 38  | 23    | 23   | 30  | 24               | 0                         | -400                      | -630                          | 40  |
| 400                                                                                                                                                                                                   | 500     | 0                                                | -35                       | 44                   | 44  | 26    | 26   | 35  | 27               | 0                         | -450                      | -                             | 50  |
| 500                                                                                                                                                                                                   | 630     | 0                                                | -40                       | 50                   | 50  | 30    | 30   | 40  | 30               | 0                         | -500                      | -                             | 50  |
| a 适用于成对或成组安装时单个轴承的内外圈，也适用于d≥50mm锥孔轴承的内圈<br>A. It is suitable for inner and outer rings of a single bearing when mounted in pairs or in groups, and also for inner rings of d≥50mm taper bore bearings |         |                                                  |                           |                      |     |       |      |     |                  |                           |                           |                               |     |



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| D<br>mm                                                                                                                    |         | 向心轴承外圈的公差 Tolerance of radial bearing outer ring |                           |                     |               |      |     |                                     |                    |                   |                                                                             | 单位(unit) μ m              |                          |    |
|----------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------|---------------------------|---------------------|---------------|------|-----|-------------------------------------|--------------------|-------------------|-----------------------------------------------------------------------------|---------------------------|--------------------------|----|
|                                                                                                                            |         | ΔDmp                                             |                           | VDsp                |               | Vdmp | Kea | SD <sup>a</sup><br>SD1 <sup>b</sup> | Sea <sup>a b</sup> | Sea1 <sup>b</sup> | ΔCs<br>ΔC1s <sup>b</sup>                                                    |                           | Vcs<br>Vc1s <sup>b</sup> |    |
|                                                                                                                            |         |                                                  |                           | 直径系列Diameter series |               |      |     |                                     |                    |                   |                                                                             |                           |                          |    |
|                                                                                                                            |         |                                                  |                           | 9                   | 0、1、<br>2、3、4 |      |     |                                     |                    |                   |                                                                             |                           |                          |    |
| 超过<br>over                                                                                                                 | 到<br>to | 上偏差<br>Upper<br>deviation                        | 下偏差<br>Lower<br>deviation | max                 |               | max  | max | max                                 | max                | max               | 上偏差<br>Upper<br>deviation                                                   | 下偏差<br>Lower<br>deviation | max                      |    |
| 0                                                                                                                          | 2.5     | 0                                                | -5                        | 5                   | 4             | 3    | 5   | 8                                   | 8                  | 11                | 与同一轴承内圈<br>的ΔBs相同<br>With the same<br>bearing inner<br>ring at the same ΔBs |                           |                          | 5  |
| 2.5                                                                                                                        | 6       | 0                                                | -5                        | 5                   | 4             | 3    | 5   | 8                                   | 8                  | 11                |                                                                             |                           |                          | 5  |
| 6                                                                                                                          | 18      | 0                                                | -5                        | 5                   | 4             | 3    | 5   | 8                                   | 8                  | 11                |                                                                             |                           |                          | 5  |
| 18                                                                                                                         | 30      | 0                                                | -6                        | 6                   | 5             | 3    | 6   | 8                                   | 8                  | 11                |                                                                             |                           |                          | 5  |
| 30                                                                                                                         | 50      | 0                                                | -7                        | 7                   | 5             | 4    | 7   | 8                                   | 8                  | 11                |                                                                             |                           |                          | 5  |
| 50                                                                                                                         | 80      | 0                                                | -9                        | 9                   | 7             | 5    | 8   | 8                                   | 10                 | 14                |                                                                             |                           |                          | 6  |
| 80                                                                                                                         | 120     | 0                                                | -10                       | 10                  | 8             | 5    | 10  | 9                                   | 11                 | 16                |                                                                             |                           |                          | 8  |
| 120                                                                                                                        | 150     | 0                                                | -11                       | 11                  | 8             | 6    | 11  | 10                                  | 13                 | 18                |                                                                             |                           |                          | 8  |
| 150                                                                                                                        | 180     | 0                                                | -13                       | 13                  | 10            | 7    | 13  | 10                                  | 14                 | 20                |                                                                             |                           |                          | 8  |
| 180                                                                                                                        | 250     | 0                                                | -15                       | 15                  | 11            | 8    | 15  | 11                                  | 15                 | 21                |                                                                             |                           |                          | 10 |
| 250                                                                                                                        | 315     | 0                                                | -18                       | 18                  | 14            | 9    | 18  | 13                                  | 18                 | 25                |                                                                             |                           |                          | 11 |
| 315                                                                                                                        | 400     | 0                                                | -20                       | 20                  | 15            | 10   | 20  | 13                                  | 20                 | 28                |                                                                             |                           |                          | 13 |
| 400                                                                                                                        | 500     | 0                                                | -23                       | 23                  | 17            | 12   | 23  | 15                                  | 23                 | 33                |                                                                             |                           |                          | 15 |
| 500                                                                                                                        | 630     | 0                                                | -28                       | 28                  | 21            | 14   | 25  | 18                                  | 25                 | 35                |                                                                             |                           |                          | 18 |
| 630                                                                                                                        | 800     | 0                                                | -35                       | 35                  | 26            | 18   | 30  | 20                                  | 30                 | 42                |                                                                             |                           |                          | 20 |
| a、不适用于凸缘外圈轴承    b、仅适用于沟型球轴承<br>A. not applicable to flange outer ring bearing    B. only applicable to groove ball bearing |         |                                                  |                           |                     |               |      |     |                                     |                    |                   |                                                                             |                           |                          |    |

| D<br>mm                                                                                                                                                                                                                                                                   |         | 向心轴承内圈的公差 Tolerance of radial bearing inner ring |                           |                     |               |      |     |                |                  |                           |                           | 单位(unit) μ m                  |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------|---------------------------|---------------------|---------------|------|-----|----------------|------------------|---------------------------|---------------------------|-------------------------------|-----|
|                                                                                                                                                                                                                                                                           |         | ΔDmp                                             |                           | Vdsp                |               | Vdmp | Kia | S <sub>d</sub> | Sia <sup>b</sup> | ΔBs                       |                           |                               | VBs |
|                                                                                                                                                                                                                                                                           |         |                                                  |                           | 直径系列Diameter series |               |      |     |                |                  | 全部<br>All                 | 正常<br>Normal              | 修正 <sup>a</sup><br>Correction |     |
|                                                                                                                                                                                                                                                                           |         |                                                  |                           | 9                   | 0、1、<br>2、3、4 |      |     |                |                  |                           |                           |                               |     |
| 超过<br>over                                                                                                                                                                                                                                                                | 到<br>to | 上偏差<br>Upper<br>deviation                        | 下偏差<br>Lower<br>deviation | max                 | max           | max  | max | max            | max              | 上偏差<br>Upper<br>deviation | 下偏差<br>Lower<br>deviation |                               | max |
| 0                                                                                                                                                                                                                                                                         | 0.6     | 0                                                | -5                        | 5                   | 4             | 3    | 4   | 7              | 7                | 0                         | -40                       | -250                          | 5   |
| 0.6                                                                                                                                                                                                                                                                       | 2.5     | 0                                                | -5                        | 5                   | 4             | 3    | 4   | 7              | 7                | 0                         | -40                       | -250                          | 5   |
| 2.5                                                                                                                                                                                                                                                                       | 10      | 0                                                | -5                        | 5                   | 4             | 3    | 4   | 7              | 7                | 0                         | -40                       | -250                          | 5   |
| 10                                                                                                                                                                                                                                                                        | 18      | 0                                                | -5                        | 5                   | 4             | 3    | 4   | 7              | 7                | 0                         | -80                       | -250                          | 5   |
| 18                                                                                                                                                                                                                                                                        | 30      | 0                                                | -6                        | 6                   | 5             | 3    | 4   | 8              | 8                | 0                         | -120                      | -250                          | 5   |
| 30                                                                                                                                                                                                                                                                        | 50      | 0                                                | -8                        | 8                   | 6             | 4    | 5   | 8              | 8                | 0                         | -120                      | -250                          | 5   |
| 50                                                                                                                                                                                                                                                                        | 80      | 0                                                | -9                        | 9                   | 7             | 5    | 5   | 8              | 8                | 0                         | -150                      | -250                          | 6   |
| 80                                                                                                                                                                                                                                                                        | 120     | 0                                                | -10                       | 10                  | 8             | 5    | 6   | 9              | 9                | 0                         | -200                      | -380                          | 7   |
| 120                                                                                                                                                                                                                                                                       | 180     | 0                                                | -13                       | 13                  | 10            | 7    | 8   | 10             | 10               | 0                         | -250                      | -380                          | 8   |
| 180                                                                                                                                                                                                                                                                       | 250     | 0                                                | -15                       | 15                  | 12            | 8    | 10  | 11             | 13               | 0                         | -300                      | -500                          | 10  |
| 250                                                                                                                                                                                                                                                                       | 315     | 0                                                | -18                       | 18                  | 14            | 9    | 13  | 13             | 15               | 0                         | -350                      | -500                          | 13  |
| 315                                                                                                                                                                                                                                                                       | 400     | 0                                                | -23                       | 23                  | 18            | 12   | 15  | 15             | 20               | 0                         | -400                      | -630                          | 15  |
| a. 仅适用于沟型球轴承。 b. 适用于成对或成组安装时单个轴承的内外圈，也适用于是≥50mm锥孔轴承的内圈。<br>A. only applicable to groove ball bearings. B. It is applicable to the inner and outer rings of a single bearing when mounted in pairs or in groups, and also to the inner rings of a cone hole bearing ≥50mm. |         |                                                  |                           |                     |               |      |     |                |                  |                           |                           |                               |     |



存放时间是指轴承可储存且不会对齐运行性能产生不良影响的时间段。若将轴承放置在未打开、未损坏的原始包装内，可以实现长期存放。轴承的存放时间还取决于其所处的环境条件。为保持轴承潜在的运行性能，我们推荐“先进先出”的仓储原则。

Storage time refers to the period of time during which the bearing can be stored and will not be aligned to adversely affect its operating performance. Long-term storage can be achieved if the bearing is placed in the original packaging that is not opened and not damaged. The bearing's shelf life also depends on the environmental conditions in which it is placed. To maintain the bearing's potential operational performance, we recommend the "first in, first out" warehousing principle.

开放轴承的存放时间 Open bearing storage time

开式（非密封型）轴承的一般存放时间见下表。

The general storage time of open (non-sealed) bearings is shown in the table below.

闭式轴承的存放时间 Storage time of closed bearings

闭式轴承（带密封件或防尘盖的轴承）的最长存放时间应该是三年，否则预填的油脂会老化。The maximum storage time for closed bearings (bearings with seals or dust caps) should be three years, otherwise the prefilled grease will age.

| 开式(非密封型)轴承的存放时间 Storagetimeofopen(non-sealed)bearings |                                     |        |                     |
|-------------------------------------------------------|-------------------------------------|--------|---------------------|
| 空气湿度<br>Humidityoftheair                              | 环境温度<br>The environment temperature |        | 存储时间<br>Storagetime |
| %                                                     | ° C                                 | ° F    | 年                   |
| 65                                                    | 20-25                               | 70-75  | 10                  |
| 75                                                    | 20-25                               | 70-75  | 5                   |
| 75                                                    | 35-40                               | 95-105 | 3                   |
| 无法控制的热带气候条件Uncontrollable tropical weather conditions |                                     |        | 1                   |

轴承的润滑

Bearing lubrication

滚动轴承采用润滑来预防每个滚动、滑动部件之间的直接金属接触，轴承的性能和寿命很大程度上取决于润滑的适当选择和正确使用。

根据不同的工作环境和轴承的操作情况，我们列出下列常用的油脂以方便客户挑选。除了下面列出的油脂外，还可以根据客户的要求添加其他油脂。

The rolling bearing uses lubrication to prevent direct metal contact between each rolling and sliding component, and the bearing's performance and life largely depend on the proper selection and proper use of lubrication. According to different working conditions and bearing operation conditions, we have listed the following commonly used grease to facilitate customer selection. In addition to the oils listed below, other oils may be added upon customer's request.

| 油脂名称<br>Name of grease  | 牌号<br>Brand                          | 平均滴点(° C)<br>Meandroppoint | 工作针入值25° C<br>Working needle input value | 工作温度° C<br>Working temperature |
|-------------------------|--------------------------------------|----------------------------|------------------------------------------|--------------------------------|
| 壳牌<br>Shell             | Alvantia RL2                         | 185                        | 265~295                                  | -35~120                        |
|                         | Alvania RLQ2                         | 195                        | 265~295                                  | -25~120                        |
|                         | Alvania R3                           | 185                        | 220~250                                  | -35~135                        |
|                         | Alvania EP2                          | 185                        | 265~295                                  | -25~110                        |
| 雪佛龙<br>Chevron          | SRI-2<br>OEM                         | 240                        | 255~280                                  | -30~175                        |
|                         |                                      | 243                        | 270                                      | -30~170                        |
| 津脂（汉沽）<br>JinZhi(Hangu) | HAS<br>HTHS<br>TSA                   | 206                        | 280                                      | -40~130                        |
|                         |                                      | 300                        | 280                                      | -40~200                        |
|                         |                                      | 192                        | 280                                      | -50~150                        |
|                         |                                      | 198                        | 280                                      | -20~120                        |
| 美孚<br>Mobil             | Mobil EP2                            | 180                        | 305~350                                  | -10~120                        |
|                         | Mobil XHP222                         | 280                        | 281                                      | -29~177                        |
|                         | Mobil 28                             | 260                        | 265~295                                  | -55~175                        |
|                         | Mobil 48                             | 260                        | 240~270                                  | -60~170                        |
| 协同<br>Synergy           | Raremax Super<br>SRL<br>PS2<br>ET150 | 190                        | 260                                      | -40~170                        |
|                         |                                      | 185                        | 225~245                                  | -40~145                        |
|                         |                                      | 190                        | 250~275                                  | -50~150                        |
|                         |                                      | 260                        | 255~280                                  | -10~160                        |
| 埃索<br>Esso              | AndokC                               | 260                        | 190~210                                  | -30~140                        |
|                         | Beacon 325                           | 190                        | 255~280                                  | -54~120                        |
|                         | Polyrex EM                           | 288                        | 305~340                                  | -30~180                        |
|                         | Polyrex EP2                          | 280                        | 280~310                                  | -40~180                        |
| 克虎伯<br>KeHuBo           | Lsoflex LDS18                        | 190                        | 255~280                                  | -50~110                        |
|                         | Lsoflex NBU15                        | 250                        | 255~280                                  | -30~120                        |

轴承的配合

Bearing fit

轴承的配合合理的前提下才能保证轴承工作时的旋转精度和工作寿命，轴承安装在轴或者轴承座上时，要考虑到不同间隙的配合对轴承精度等级的改变。以下表格根据理论数据和我们的配套经验列举了轴承在不同的工作场合需要采用配合建议。

The rotation accuracy and working life of the bearing can only be guaranteed if the bearing is fitted reasonably. When the bearing is installed on the shaft or bearing seat, the change of the bearing precision grade due to the fit of different clearance should be considered. Based on theoretical data and our supporting experience, the following table lists Suggestions for the bearing to be used in different work situations.

| 轴承和轴的配合 Bearing and shaft fit                                             |                                                                          |                                                                                                                                    |                                     |                         |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------|
| 负载情况 Load                                                                 |                                                                          | 例子 Example                                                                                                                         | 内径<br>The inner diameter            | 轴的公差<br>Shaft tolerance |
| 旋转的外圈负载<br>Rotating outer ring load                                       | 要求内圈在轴上容易移动<br>The inner ring is required to move easily on the axis     | 在静止轴上的轮子<br>A wheel on a stationary axis                                                                                           | 全部轴径<br>All of the diameter of axle | g6                      |
|                                                                           | 不要内圈在轴上容易移动<br>The inner ring is not required to move easily on the axis | 张紧滑轮，绳轮<br>Tensioning pulley, rope wheel                                                                                           |                                     | h6                      |
|                                                                           | 轻负载(<0.06Cr)<br>Light load (< 0.06CR)                                    | 电气工具水泵，吹风机，<br>交通工具精密仪器，机床<br>Electrical tools, water pumps, hair dryers, Vehicles precision instruments, machine tools            | <18                                 | Js5                     |
|                                                                           |                                                                          |                                                                                                                                    | 18 to 100                           | Js6(j6)                 |
|                                                                           |                                                                          |                                                                                                                                    | 100 to200                           | K6                      |
| 旋转的内圈负载<br>或不定向的负载<br>Rotating inner ring load<br>Or non-directional load | 正常负载<br>(0.06~0.13cCr)<br>Normal load<br>(0.06 ~ 0.13 cCr)               | 轴承的一般应用中，<br>大型马达，涡轮，水泵引擎，<br>齿轮，木工机床<br>In general use of bearings, Big motors, turbines, pump engines, Gear, woodworking machine | <18                                 | Js5~6(j5-6)             |
|                                                                           |                                                                          |                                                                                                                                    | 18 to 100                           | K5~6                    |
|                                                                           |                                                                          |                                                                                                                                    | 100 to 140                          | m5~6                    |
|                                                                           |                                                                          |                                                                                                                                    | 140 to 200                          | M6                      |
|                                                                           |                                                                          |                                                                                                                                    | 200 to 280                          | n6                      |



滚动轴承是精密部件，其使用也必须相应的慎重进行。无论使用多么高性能的轴承，如果使用不当，则不会得到预期的高性能，有关轴承的使用注意事项如下。

### 一、保持轴承及其周围环境的清洁

即使肉眼看不见的微小灰尘进入轴承，也会增加轴承的磨损，振动和噪声。轴承以及其周边附件应保持清洁，特别是灰尘及污物，工具及其工作环境也必须保持干净。

### 二、使用安装时要认真仔细

不允许强力冲压，不允许用锤直接敲击轴承，不允许通过滚动体传递压力。

### 三、使用合适、准确的安装工具

尽量使用专用工具，极力避免使用布类和短纤维这类的东西。

### 四、防止轴承腐蚀

直接用手拿取轴承时，要充分洗去手上的汗液，并涂以优质矿物质油后再进行操作，在雨季和夏季尤其要主要防锈。不过，在某种特殊情况的操作条件下，轴承可以获得较长于传统计算的寿命，特别是在轻负荷的情况下。这些特殊的操作条件就是，当滚动面（轧道及滚动件）被一润滑油膜有效地分割及限制污染物所可能导致的表面破坏。事实上，在理想的条件下，所谓永久轴承寿命是可能的。

Rolling bearings are precision components, their use must also be appropriate caution. No matter how high-performance bearings, if used improperly, it will not get the expected performance, relevant bearing Cautions below.

#### 1.To keep their surroundings clean bearings

Even tiny invisible dust into the bearing, will increase wear, vibration and noise of the bearing. Bearing and its surrounding attachments should be kept clean, especially dust and dirt, tools and working environment must be kept clean.

#### 2.When using the installation should carefully

Does not allow a strong punch, does not allow direct bearing percussion hammer is not allowed to pass through the rolling pressure.

#### 3.Using a suitable, accurate installation tool

Try using a dedicated tool, try to avoid the use of cloth and short fibers such things.

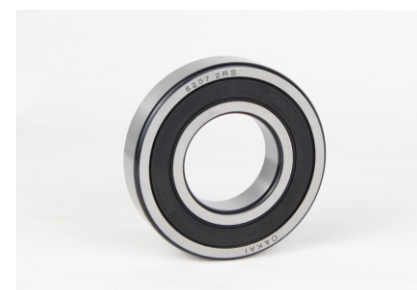
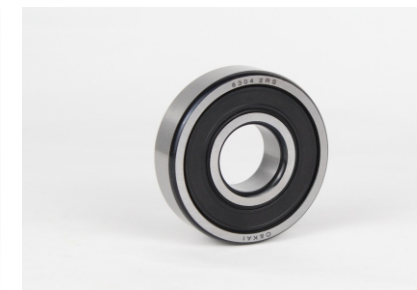
#### 4.Prevent bearing corrosion

Direct hand pick bearings, to fully wash hands sweat and coated with high-quality mineral oil before operation, especially in the rainy season and summer mainly rust. However, under the operating conditions of a particular case, the longer the life of the bearing can be obtained in traditional computing, especially under light load conditions. These particular operating condition is, when the rolling surface (and the rolling member rolling path) is effectively split, and limitations as the lubricant film surface contaminants may lead to damage. In fact, under ideal conditions, the so-called permanent bearing life is possible.



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# 应用领域

## Application Area



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