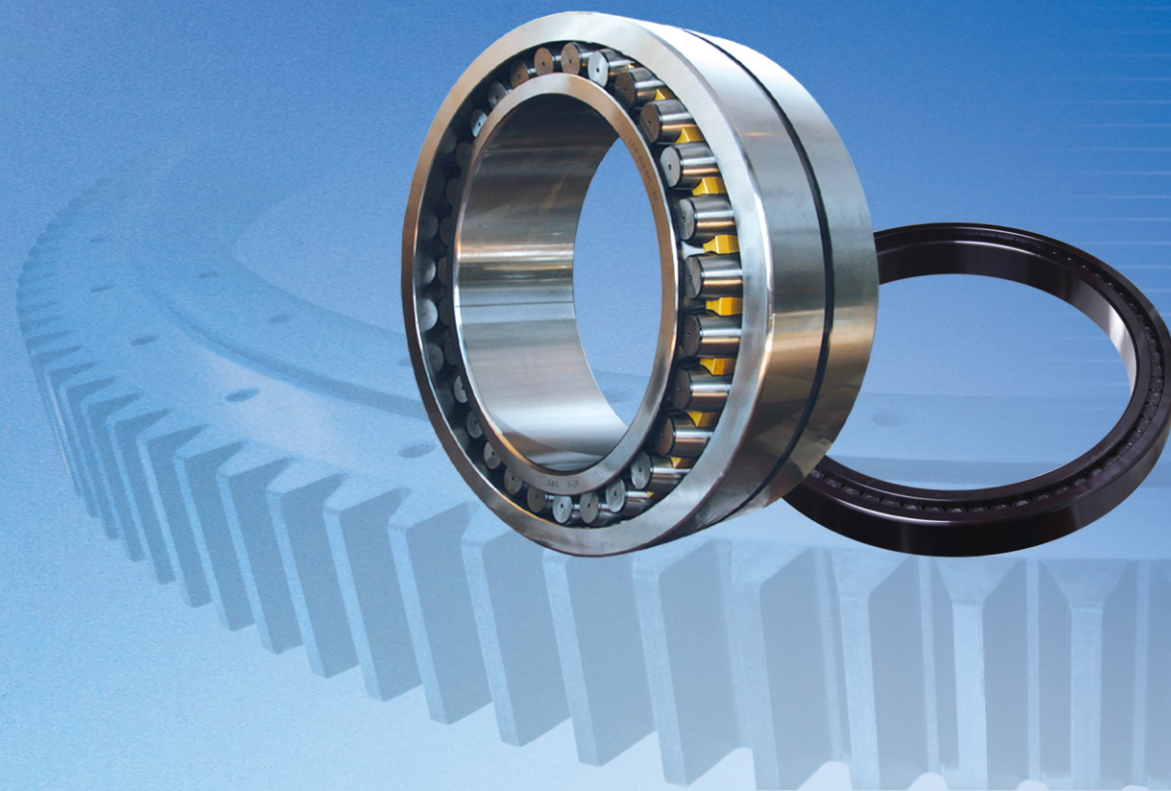
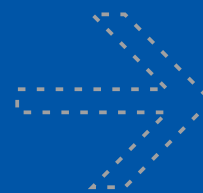


风电系列轴承  
WIND POWER BEARING

# ZWZ

## 风电系列轴承

WIND POWER BEARING



**ZWZ 瓦房店轴承集团有限责任公司**  
WAFANGDIAN BEARING GROUP CORP.

1

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(Tel) 0411-39111888  
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(P.C.) 116300  
<http://www.zwz-bearing.com>

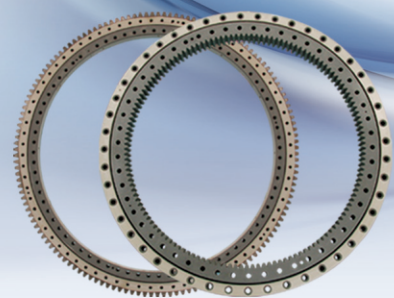


瓦轴集团公众微信平台

**瓦房店轴承集团有限责任公司**  
WAFANGDIAN BEARING GROUP CORP.

ZWZ/2016.8

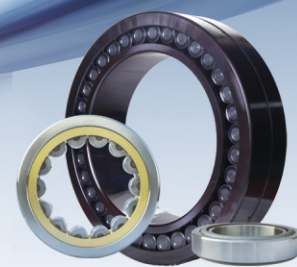
ZWZ Group is one of largest wind power supporting bearing manufacturer at present, has been formed four major production bases including wind power slewing bearing, wind power main bearing, wind power accelerator and driving devices and wind power motor. Comperhensively manufacturing pitch bearing, yaw bearing, main bearing, accelerator, driving devices, electric generator 6 main series products, realize locoliaztion of MW level wind power bearing. The market share takes the front rank in domestic market, meanwhile exporting products to international famous enterprises.



Pitch & Yaw Bearing



Main Bearing



Accelerator Bearing



Driving Device Bearing



Electric Generator Bearing

1 风电轴承代号编制方法

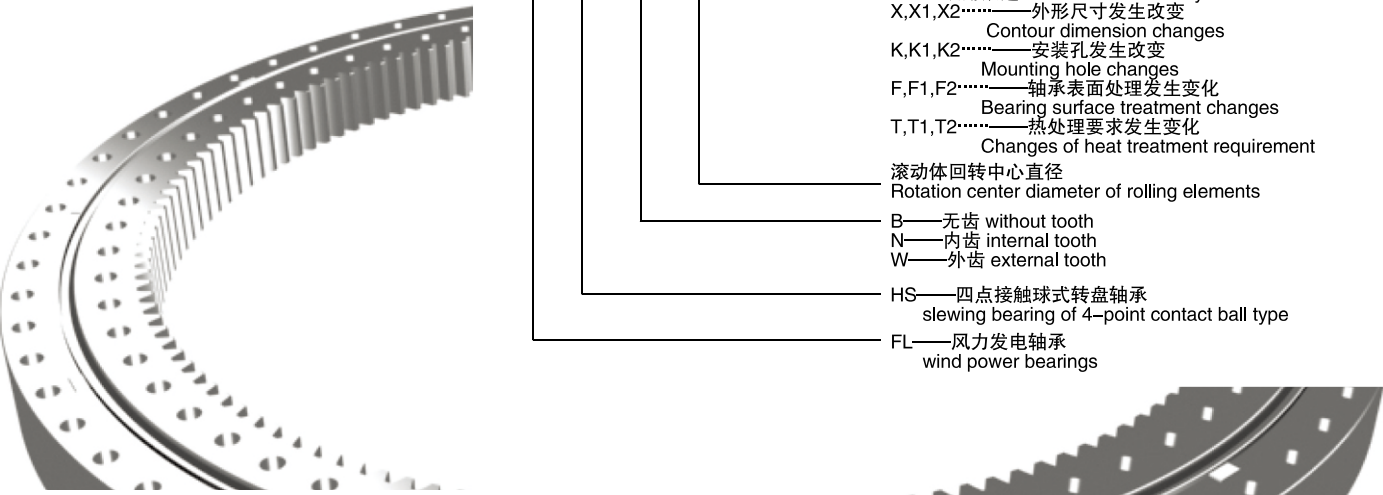
1 Preparation method of Wind power bearing code compilation method

1.1 偏航、变桨轴承代号

ZWZ偏航、变桨轴承代号由前置代号、基本代号及后置代号三部分构成。

1.1 Code of Yaw bearing and Pitch bearing

The code of yaw bearing and pitch bearing consists of preposition code, basic code and postposition code.

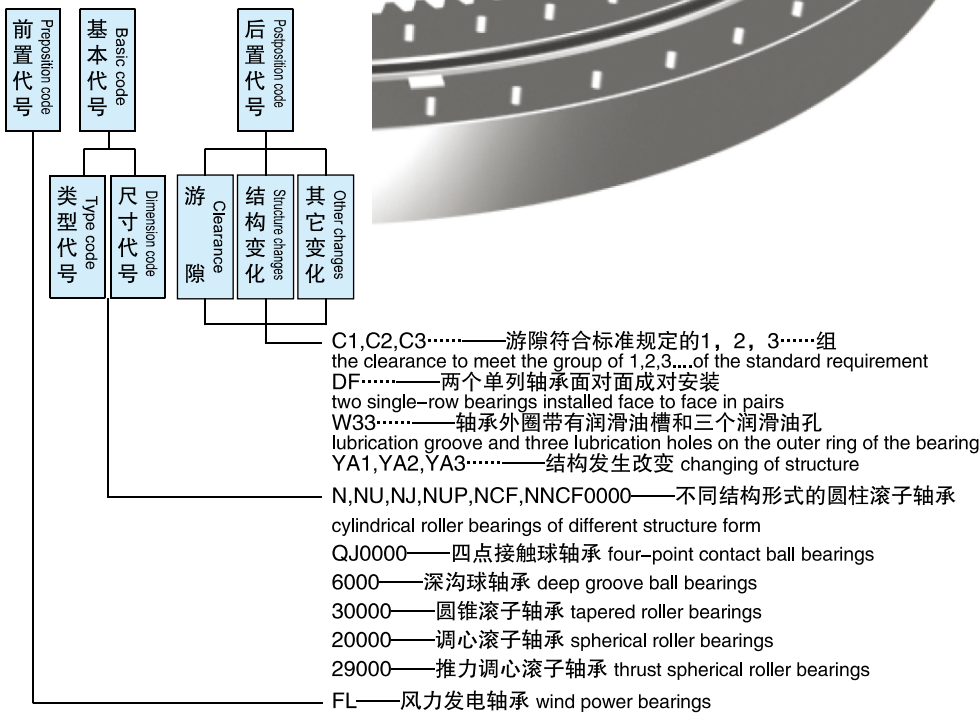


1.2 传动系统轴承代号

传动系统轴承包括主轴轴承、增速箱轴承、驱动装置轴承及发电机轴承。ZWZ传动系统轴承代号由前置代号、基本代号及后置代号三部分构成。

1.2 Code of transmission system bearing

Transmission system bearings include main shaft bearings, gearbox bearings, driving device bearings and generator bearings. The ZWZ transmission system bearing code consists of preposition code, basic code and postposition.



2

2 Windpower Bearing Structure and Critical Technology

Pitch & Yaw Bearing

Structure Type

Yaw and pitch bearing structure is single or double-row four-point contact slewing ball bearing.

Critical Technology

1)

1) Advanced Heat-treatment Technology.

2)

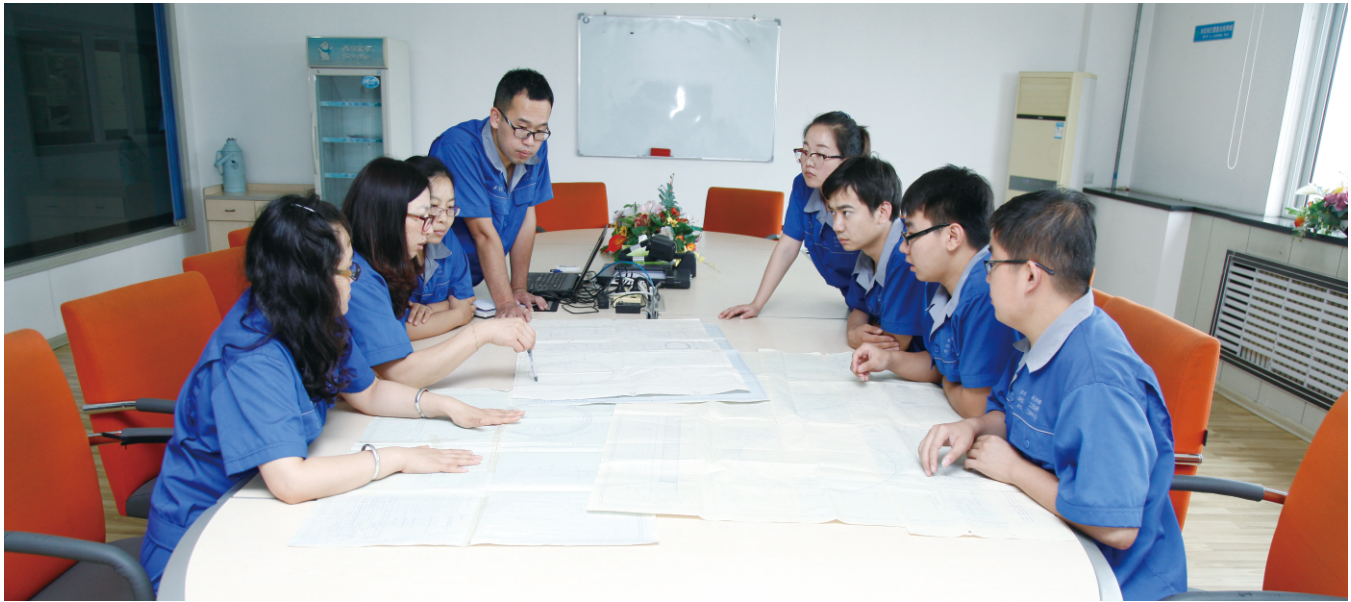
2) Realize the requirements of high raceway hardness and hardening layer depth.

3)

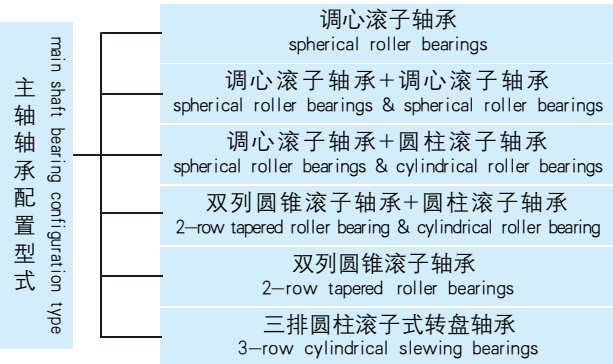
3) Soft zone automatic grinding technology: soft zone automatic grinding equipment developed independently, which can realize high grinding quality to soft zone.

4)

4) Sealing ring adhesion technology: adopts special tools , realize high adhesion quality.

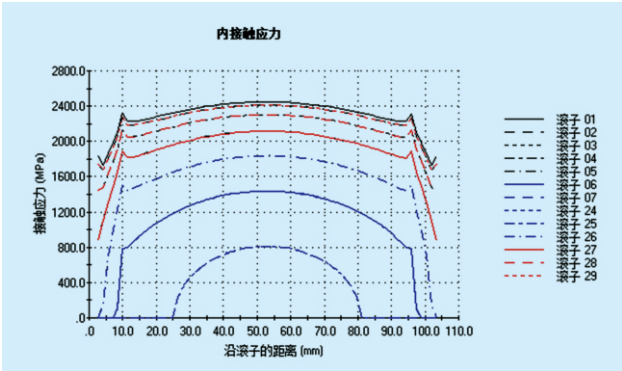


Main Bearing



Structure Type

Because of there are different design of wind turbine transmission system, there are many types of main bearing structure.



Structure Characteristic of Driving Device Bearing

Driving devices including pitch driver and yaw driver. Bearing type can be divided into tapered roller bearing, spherical roller bearing, cylindrical roller bearing and deep groove ball bearing.

Structure Characteristic of Electric Generator Bearing

ZWZ发电机轴承为绝缘轴承，包括滚动体为陶瓷球的深沟球轴承及套圈表面进行绝缘处理的圆柱滚子轴承。

ZWZ electric generator bearing is insulated bearing, including deep groove ball bearing which rolling element is ceramic ball and cylindrical roller bearing which ring surface conduct by insulated treatment.

3 Windpower bearing model selection Calculation

Accelerator Bearing

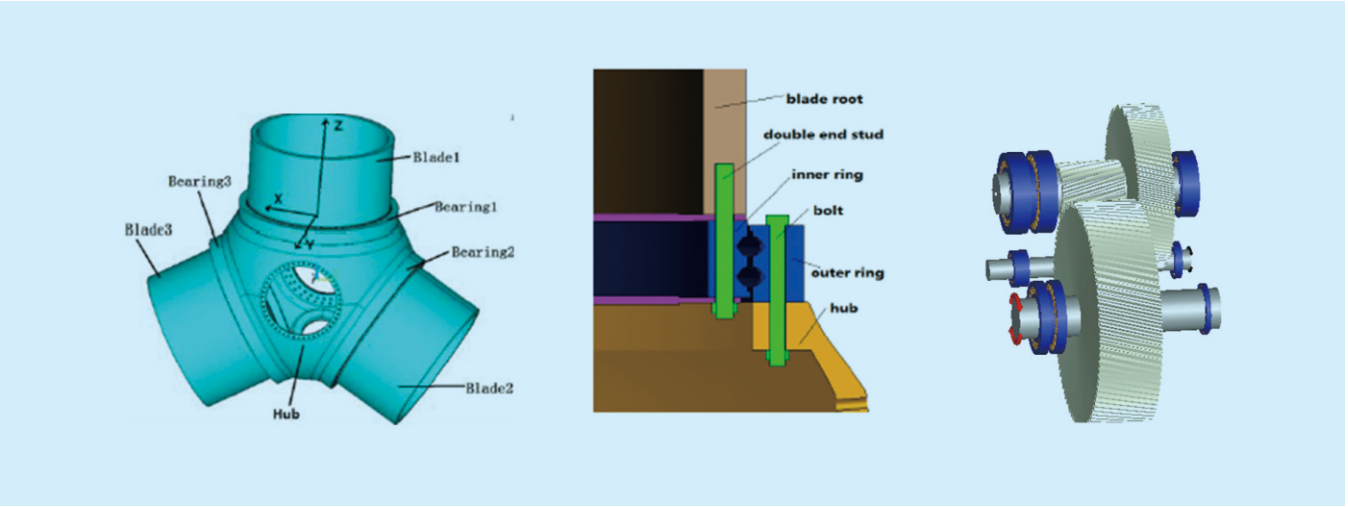
Structure Type

According to application position, the accelerator bearing can be divided into low speed-end bearing, intermediate shaft bearing and high speed-end bearing. Product structure type can be divided into cylindrical roller bearing, tapered roller bearing, spherical roller bearing, thrust self-aligning roller bearing, four-point contact ball bearing.

- Critical Technology
- 1) Bearing Structure Design
  - Rolling element and flange surface adopts special structure design, which can improve bearing axial load carrying capacity; Latest cage structure design, realize well guiding to rolling elements, which guarantees bearing has a good running performance under high speed condition.
  - 2) Bearing Surface Black Oxide Treatment, Technology, Adopts advanced European black oxide treatment technology
  - 3) Introduced bearing ring and rolling element UTT defect detect technology
  - 4) Inspection Technology, Introduced advanced instrument, adopt international standard, realized bearing layout inspection.

ZWZ  
FEA

Because of windpower bearing needs to guarantee the requirements of high reliability and long life, ZWZ conduct model selection calculation to all wind turbine model, including bearing FEA calculation, life calculation, bolt strength calculation and tooth strength calculation and etc.



ZWZ可与客户的主机设计进行轴承选型的同步设计。

客户在选用ZWZ轴承前，需向ZWZ提供轴承使用工况载荷（静态载荷、疲劳载荷谱）、载荷坐标系以及传动系统布置结构等，ZWZ根据轴承应用工况进行轴承选型计算。

ZWZ can perform synchronous design together with customer's OEM design.

Before customer choose ZWZ bearing, that need provide bearing working condition loads (Static Load, Fatigue Load Spectrum), Load coordinate system and transmission system layout structure and etc., ZWZ shall perform bearing model selection calculate according to bearing application working condition.

- 1 : 1
- 2 : 2
- 3 UTT
- 4 :
- 5

4  
4 Wind power bearing installation and maintaining

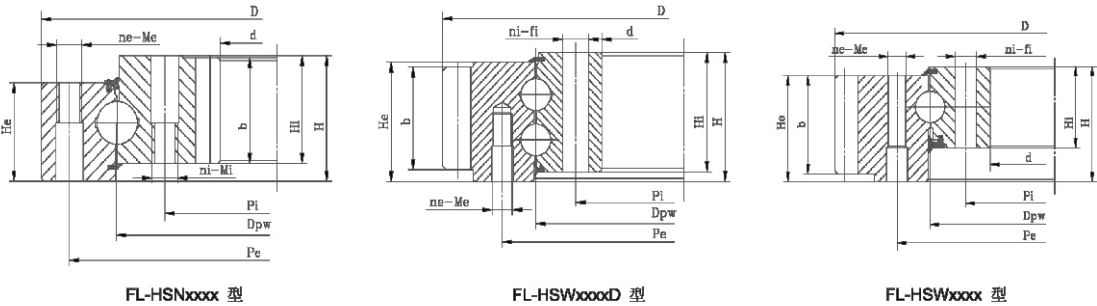
ZWZ  
ZWZ          ZWZ

Because the customized design of ZWZ windpower bearing, when customer choose ZWZ bearing, ZWZ will provide detailed bearing mounting and maintaining instructions to customers.



风电系列轴承型号目录  
WIND POWER BEARING CATALOGUE

偏航轴承 YAW BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |        |     |     |     |      | 安装尺寸<br>Mounting Dimension |      |     | 安装尺寸<br>Mounting Dimension |    |     |    |      | 齿轮参数<br>Gear Parameter |    |     |     | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|--------|-----|-----|-----|------|----------------------------|------|-----|----------------------------|----|-----|----|------|------------------------|----|-----|-----|--------------|----------|
|                             | d                          | D      | H   | Hi  | He  | Dpw  | Pi                         | Pe   | ni  | fi                         | Mi | ne  | fe | Me   | b                      | m  | z   | x   |              |          |
|                             | mm                         |        |     |     |     |      | mm                         |      |     | mm                         |    |     |    |      | mm                     |    |     |     | kg           |          |
| FL-HSW800FT1                | 710                        | 924    | 67  | 58  | 58  | 800  | 744                        | 854  | 30  | 13                         |    | 30  |    | 12   | 58                     | 6  | 152 | 0   | 108          | 60kW     |
| FL-HSN1872FT1               | 1628                       | 2051   | 140 | 120 | 110 | 1872 | 1759                       | 1985 | 48  | 33                         | 30 | 48  | 33 | 30   | 120                    | 14 | 118 | 0   | 931          | 1.0MW    |
| FL-HSN2182FT                | 1988                       | 2299   | 109 | 100 | 72  | 2182 | 2108                       | 2255 | 60  | 22                         | 20 | 44  | 22 | 20   | 99.5                   | 14 | 143 | 0.5 | 595          | 1.0MW    |
| FL-HSW2330DFT1              | 2137                       | 2616   | 183 | 169 | 169 | 2330 | 2215                       | 2436 | 68  | 39                         |    | 64  | 33 | 30.3 | 145                    | 20 | 128 | 0.5 | 1830         | 1.5MW    |
| FL-HSW2330DX1FT1            | 2135                       | 2616   | 185 | 170 | 170 | 2330 | 2215                       | 2436 | 68  | 39                         |    | 64  | 33 | 30   | 145                    | 20 | 128 | 0.5 | 1830         | 1.5MW    |
| FL-HSW2330DX2FT1            | 2135                       | 2616   | 185 | 170 | 170 | 2330 | 2215                       | 2436 | 68  | 39                         |    | 64  | 33 | 30   | 145                    | 20 | 128 | 0.5 | 1830         | 1.5MW    |
| FL-HSW2330DX3FT1            | 2135                       | 2616   | 185 | 170 | 171 | 2330 | 2215                       | 2436 | 68  | 39                         |    | 64  | 33 | 30   | 147                    | 20 | 128 | 0.5 | 1900         | 1.5MW    |
| FL-HSW2330DX5FT1            | 2135                       | 2616   | 185 | 170 | 170 | 2330 | 2215                       | 2436 | 68  | 39                         |    | 64  | 33 | 30   | 147                    | 20 | 128 | 0.5 | 1890         | 1.5MW    |
| FL-HSW2330DX6FT1            | 2135                       | 2636   | 204 | 169 | 190 | 2330 | 2215                       | 2436 | 68  | 39                         |    | 64  | 33 | 30   | 145                    | 20 | 129 | 0.5 | 2110         | 1.5MW    |
| FL-HSW2330DK1               | 2135                       | 2636   | 204 | 169 | 190 | 2330 | 2215                       | 2436 | 68  | 39                         |    | 64  | 33 | 30   | 145                    | 20 | 129 | 0.5 | 2085         | 1.5MW    |
| FL-HSW2355FT1               | 2184                       | 2624.4 | 130 | 109 | 121 | 2355 | 2250                       | 2460 | 75  | 33                         |    | 76  | 33 | 30   | 120                    | 18 | 143 | 0.5 | 1211         | 1.5MW    |
| FL-HSW2355X1FT1             | 2184                       | 2624.4 | 159 | 109 | 150 | 2355 | 2250                       | 2460 | 75  | 33                         |    | 76  | 33 | 30   | 120                    | 18 | 143 | 0.5 | 1360         | 1.5MW    |
| FL-HSW2442DFT1              | 2225                       | 2790   | 204 | 169 | 190 | 2442 | 2320                       | 2564 | 72  | 39                         |    | 64  | 39 | 36   | 189                    | 22 | 124 | 0.5 | 2600         | 1.5MW    |
| FL-HSN2545                  | 2360                       | 2896   | 149 | 106 | 140 | 2545 | 2434                       | 2658 | 72  | 39                         |    | 72  | 39 |      | 139                    | 20 | 142 | 0.5 | 1780         | 1.5MW    |
| FL-HSW2600FT1               | 2422                       | 2858   | 151 | 116 | 135 | 2600 | 2496                       | 2706 | 84  | 33                         |    | 84  | 39 | 36   | 135                    | 16 | 177 | 0.5 | 1470         | 1.5MW    |
| FL-HSN2718FT1               | 2469.6                     | 2908   | 137 | 124 | 95  | 2718 | 2615                       | 2830 | 90  | 30                         | 27 | 90  | 30 |      | 120                    | 18 | 138 | 0.5 | 1240         | 1.5MW    |
| FL-HSN2718FT1S              | 2469.6                     | 2908   | 137 | 124 | 95  | 2718 | 2615                       | 2830 | 90  | 30                         | 27 | 90  | 30 |      | 120                    | 18 | 138 | 0.5 | 1240         | 1.5MW    |
| FL-HSN2718F1T1              | 2469.6                     | 2908   | 137 | 124 | 95  | 2718 | 2615                       | 2830 | 90  | 30                         | 27 | 90  | 30 |      | 120                    | 18 | 138 | 0.5 | 1240         | 1.5MW    |
| FL-HSW2718FT1               | 2560                       | 3020.4 | 137 | 97  | 125 | 2718 | 2630                       | 2806 | 100 | 26                         |    | 100 | 26 | 24   | 120                    | 18 | 165 | 0.5 | 1550         | 1.5MW    |
| FL-HSW2765F1T2              | 2617                       | 3002.4 | 137 | 92  | 125 | 2765 | 2677                       | 2850 | 84  | 30                         |    | 84  | 30 | 27   | 120                    | 18 | 164 | 0.5 | 1187         | 1.5MW    |
| FL-HSW2765FT1               | 2617                       | 3002.4 | 137 | 92  | 125 | 2765 | 2677                       | 2850 | 84  | 30                         |    | 84  | 30 | 27   | 120                    | 18 | 164 | 0.5 | 1190         | 1.5MW    |
| FL-HSN2297FT1               | 2034                       | 2500   | 170 | 160 | 120 | 2297 | 2194                       | 2441 | 72  | 33                         | 30 | 72  | 33 | 30   | 149                    | 18 | 114 | 0.5 | 1500         | 2.0MW    |
| FL-HSW2462DFT1              | 2274                       | 2756   | 170 | 160 | 150 | 2462 | 2354                       | 2568 | 60  | 39                         |    | 60  | 39 | 36   | 125                    | 20 | 135 | 0.5 | 1660         | 2.0MW    |
| FL-HSN2690FT1               | 2380                       | 2900   | 162 | 150 | 140 | 2690 | 2560                       | 2820 | 90  | 36                         | 33 | 84  | 36 | 33   | 140                    | 20 | 120 | 0.5 | 2000         | 2.0MW    |
| FL-HSN2690KFT1              | 2380                       | 2900   | 162 | 150 | 140 | 2690 | 2560                       | 2820 | 90  | 36                         | 33 | 84  | 36 | 33   | 140                    | 20 | 120 | 0.5 | 2000         | 2.0MW    |
| FL-HSN2690X1FT1             | 2380                       | 2900   | 189 | 175 | 140 | 2690 | 2560                       | 2820 | 90  | 36                         | 33 | 84  | 36 | 33   | 165                    | 20 | 120 | 0.5 | 2190         | 2.0MW    |
| FL-HSN2690X1KFT1            | 2380                       | 2900   | 189 | 175 | 140 | 2690 | 2560                       | 2820 | 90  | 39                         | 36 | 84  | 39 | 36   | 165                    | 20 | 120 | 0.5 | 2190         | 2.0MW    |
| FL-HSW2755FT1               | 2600                       | 3002.4 | 137 | 100 | 125 | 2755 | 2660                       | 2850 | 84  | 30                         | 27 | 84  | 30 |      | 120                    | 18 | 164 | 0.5 | 1300         | 2.0MW    |
| FL-HSW2765X1S               | 2617                       | 3002.1 | 147 | 102 | 139 | 2765 | 2677                       | 2850 | 84  | 30                         |    | 84  | 30 | 27   | 130                    | 18 | 164 | 0.5 | 1292         | 2.0MW    |
| FL-HSW2775FT1               | 2520                       | 3136   | 160 | 125 | 145 | 2775 | 2665                       | 2885 | 96  | 39                         |    | 96  | 39 | 36   | 135                    | 20 | 154 | 0.5 | 2396         | 2.0MW    |
| FL-HSW2804FT1               | 2617                       | 3096   | 159 | 124 | 149 | 2804 | 2698                       | 2908 | 64  | 39                         |    | 64  | 39 | 36   | 135                    | 20 | 152 | 0.5 | 1870         | 2.0MW    |
| FL-HSW2805K                 | 2600                       | 3092.4 | 190 | 125 | 180 | 2805 | 2680                       | 2920 | 95  | 39                         |    | 100 | 33 | 30   | 175                    | 18 | 169 | 0.5 | 2150         | 2.0MW    |

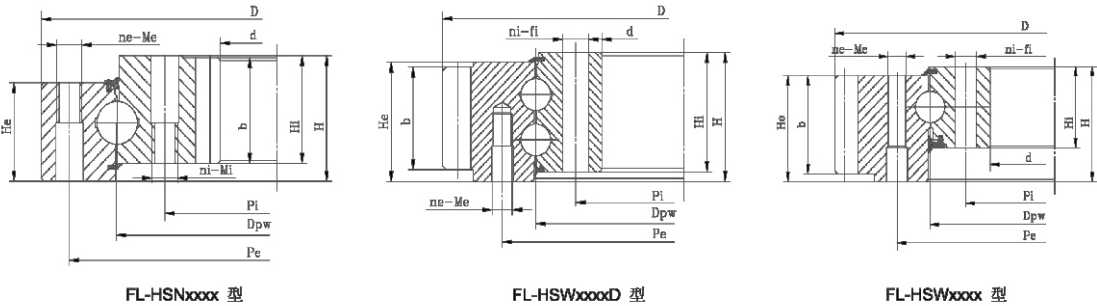
dDHeDpwzxi

fM

e

Notes d innerdiameter of bearing D Outer H Width of bearing Dpw Center diameter of roller P Center diameter of mounting holes n No. of mounting holes f Diameter of mounting holes M Diameter of screw holes b Sear width m Module z No. of gears x Addendum. Euffix e Outer ring i Inner ring

偏航轴承 YAW BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |        |     |     |     |      | 安装尺寸<br>Mounting Dimension |      |     | 安装尺寸<br>Mounting Dimension |    |     |    |    | 齿轮参数<br>Gear Parameter |    |     |     | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|--------|-----|-----|-----|------|----------------------------|------|-----|----------------------------|----|-----|----|----|------------------------|----|-----|-----|--------------|----------|
|                             | d                          | D      | H   | Hi  | He  | Dpw  | Pi                         | Pe   | ni  | fi                         | Mi | ne  | fe | Me | b                      | m  | z   | x   |              |          |
|                             | mm                         |        |     |     |     |      | mm                         |      |     | mm                         |    |     |    |    | mm                     |    |     |     | kg           |          |
| FL-HSW2805                  | 2621                       | 3092.4 | 190 | 125 | 180 | 2805 | 2690                       | 2920 | 95  | 33                         |    | 100 | 33 | 30 | 175                    | 18 | 169 | 0.5 | 2105         | 2.0MW    |
| FL-HSW2849FT1               | 2657                       | 3136   | 140 | 116 | 125 | 2849 | 2743                       | 2955 | 96  | 39                         |    | 96  | 39 | 36 | 125                    | 20 | 154 | 0.5 | 1600         | 2.0MW    |
| FL-HSW2854D                 | 2657                       | 3136   | 195 | 160 | 180 | 2854 | 2743                       | 2965 | 96  | 39                         |    | 96  | 39 |    | 180                    | 20 | 154 | 0.5 | 2255         | 2.0MW    |
| FL-HSN2980FT1               | 2664                       | 3180   | 144 | 134 | 123 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 125                    | 20 | 134 | 0.5 | 1960         | 2.0MW    |
| FL-HSN2980F1T1              | 2664                       | 3180   | 144 | 134 | 123 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 125                    | 20 | 134 | 0.5 | 1960         | 2.0MW    |
| FL-HSN2980K                 | 2664                       | 3180   | 144 | 134 | 123 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 84  | 39 |    | 125                    | 20 | 134 | 0.5 | 1950         | 2.0MW    |
| FL-HSN2980X1FT1             | 2664                       | 3180   | 144 | 134 | 123 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 125                    | 20 | 134 | 0.5 | 1960         | 2.0MW    |
| FL-HSN2980X2FT1             | 2664                       | 3180   | 193 | 179 | 127 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 170                    | 20 | 134 | 0.5 | 2410         | 2.0MW    |
| FL-HSN2980X3FT1             | 2664                       | 3180   | 144 | 132 | 125 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 120                    | 20 | 134 | 0.5 | 1960         | 2.0MW    |
| FL-HSN2980X4FT1             | 2664                       | 3180   | 199 | 189 | 125 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 180                    | 20 | 134 | 0.5 | 2480         | 2.0MW    |
| FL-HSN2980X4K               | 2664                       | 3180   | 199 | 189 | 125 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 180                    | 20 | 134 | 0.5 | 2460         | 2.0MW    |
| FL-HSN2980X5                | 2664                       | 3180   | 180 | 170 | 123 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 84  | 39 |    | 160                    | 20 | 134 | 0.5 | 2270         | 2.0MW    |
| FL-HSW2992                  | 2811                       | 3272.4 | 138 | 125 | 128 | 2992 | 2877                       | 3107 | 95  | 33                         |    | 96  | 33 | 30 | 179                    | 18 | 120 | 0.5 | 1800         | 2.0MW    |
| FL-HSW3050                  | 2830                       | 3356   | 145 | 122 | 136 | 3050 | 2925                       | 3175 | 83  | 39                         |    | 84  | 33 | 30 | 135                    | 20 | 165 | 0.5 | 2140         | 2.0MW    |
| FL-HSW3050X1                | 3355                       | 2830   | 200 | 134 | 190 | 3050 | 2925                       | 3175 | 120 | 36                         | 33 | 100 | 39 |    | 190                    | 24 | 137 | 0.5 | 2570         | 2.0MW    |
| FL-HSW3050X1K               | 3355                       | 2830   | 200 | 134 | 190 | 3050 | 2925                       | 3175 | 100 | 39                         |    | 100 | 39 | 36 | 190                    | 24 | 137 | 0.5 | 2600         | 2.0MW    |
| FL-HSN3460D                 | 3124                       | 3680   | 212 | 198 | 184 | 3460 | 3340                       | 3580 | 72  | 39                         | 36 | 72  | 39 |    | 190                    | 22 | 143 | 0.5 | 3760         | 2.0MW    |
| FL-HSW2775DX1FT1            | 2560                       | 3141.6 | 231 | 199 | 218 | 2775 | 2660                       | 2890 | 96  | 39                         |    | 96  | 45 | 36 | 208                    | 22 | 140 | 0.5 | 3470         | 2.5MW    |
| FL-HSW2804D                 | 2617                       | 3141.6 | 210 | 180 | 200 | 2804 | 2698                       | 2908 | 80  | 39                         |    | 80  | 39 | 36 | 195                    | 20 | 128 | 0.5 | 2807         | 2.1MW    |
| FL-HSN2980X6                | 2628                       | 3180   | 238 | 224 | 127 | 2980 | 2860                       | 3100 | 72  | 39                         | 36 | 72  | 39 |    | 215                    | 25 | 106 | 0.5 | 3015         | 2.1MW    |
| FL-HSW2992D                 | 2811                       | 3276   | 183 | 168 | 173 | 2992 | 2877                       | 3107 | 119 | 33                         |    | 112 | 33 | 30 | 161                    | 20 | 172 | 0.5 | 2350         | 2.5MW    |
| FL-HSW3050                  | 2830                       | 3356   | 145 | 122 | 136 | 3050 | 2925                       | 3175 | 83  | 39                         |    | 84  | 33 | 30 | 135                    | 20 | 165 | 0.5 | 2140         | 2.5MW    |
| FL-HSW3050X2                | 2830                       | 3358   | 180 | 134 | 170 | 3050 | 2925                       | 3175 | 99  | 36                         |    | 100 | 36 | 33 | 170                    | 20 | 165 | 0.5 | 2400         | 2.5MW    |
| FL-HSW2775DFT1              | 2560                       | 3141.6 | 212 | 185 | 199 | 2775 | 2660                       | 2890 | 96  | 39                         |    | 96  | 39 | 36 | 189                    | 22 | 140 | 0.5 | 3200         | 3.0MW    |
| FL-HSN2837DFT1              | 2544                       | 3037   | 198 | 179 | 187 | 2837 | 2720                       | 2955 | 84  | 39                         | 36 | 84  | 39 |    | 160                    | 20 | 128 | 0.5 | 2440         | 3.0MW    |
| FL-HSW2904D                 | 2708                       | 3196   | 182 | 169 | 169 | 2904 | 2782                       | 3025 | 108 | 36                         |    | 108 | 33 | 30 | 155                    | 20 | 157 | 0.5 | 2320         | 3.0MW    |
| FL-HSW2985D                 | 2780                       | 3276   | 190 | 168 | 180 | 2985 | 2870                       | 3100 | 72  | 39                         |    | 72  | 39 | 36 | 180                    | 20 | 161 | 0.5 | 2605         | 3.0MW    |
| FL-HSN3040FT1               | 2757.6                     | 3250   | 135 | 126 | 132 | 3040 | 2920                       | 3160 | 100 | 33                         | 30 | 99  | 33 |    | 125.5                  | 18 | 154 | 0.5 | 1940         | 3.0MW    |
| FL-HSN3480DFT1              | 3168                       | 3700   | 195 | 181 | 160 | 3480 | 3360                       | 3600 | 72  | 39                         | 36 | 72  | 39 |    | 180                    | 22 | 145 | 0.5 | 3170         | 3.0MW    |
| FL-HSN3035FT1               | 2757.6                     | 3240   | 135 | 126 | 122 | 3035 | 2920                       | 3150 | 116 | 33                         | 30 | 118 | 33 | 30 | 125                    | 18 | 154 | 0.5 | 1840         | 3.6MW    |
| FL-HSW4340DFT1              | 4100                       | 4703.6 | 219 | 205 | 205 | 4340 | 4200                       | 4480 | 120 | 42                         |    | 120 | 42 | 39 | 190                    | 22 | 211 | 0.5 | 5400         | 5.0MW    |

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Hbmn

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Notes

d

inner diameter of bearing

D

Outer

H

Width of bearing

Dpw

Center diameter of roller

P

Center diameter of mounting holes

n

No. of mounting holes

f

Diameter of mounting holes

M

Diameter of screw holes

b

Seal width

m

Module

z

No. of gears

x

Addendum.

Euffix

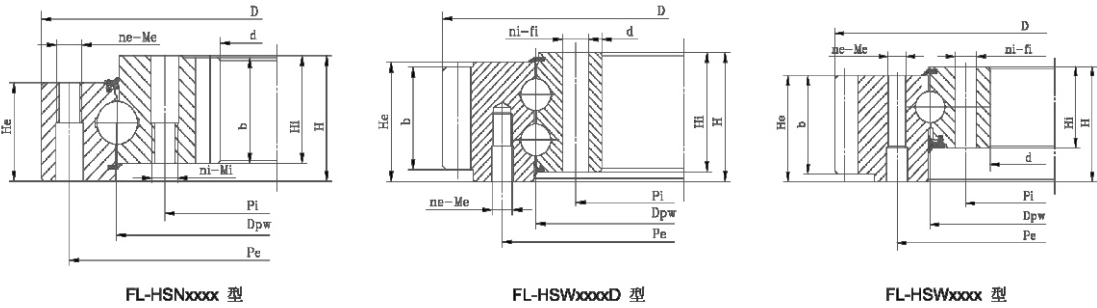
e

Outer ring

i

Inner ring

偏航轴承 YAW BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |        |     |     |     |      | 安装尺寸<br>Mounting Dimension |      |     | 安装尺寸<br>Mounting Dimension |    |     |    |    | 齿轮参数<br>Gear Parameter |    |     |     | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|--------|-----|-----|-----|------|----------------------------|------|-----|----------------------------|----|-----|----|----|------------------------|----|-----|-----|--------------|----------|
|                             | d                          | D      | H   | Hi  | He  | Dpw  | Pi                         | Pe   | ni  | fi                         | Mi | ne  | fe | Me | b                      | m  | z   | x   |              |          |
|                             | mm                         |        |     |     |     |      | mm                         |      |     | mm                         |    |     |    |    | mm                     |    |     |     | kg           |          |
| FL-HSW4652DFT1              | 4420                       | 5011.2 | 204 | 191 | 190 | 4652 | 4514                       | 4790 | 130 | 42                         |    | 132 | 42 | 39 | 174                    | 24 | 206 | 0.5 | 5170         | 5.0MW    |
| FL-HSW4652DX1FT1            | 4410                       | 5011.2 | 204 | 190 | 190 | 1652 | 4514                       | 4790 | 130 | 42                         |    | 132 | 42 | 39 | 185                    | 24 | 206 | 0.5 | 5190         | 5.0MW    |
| FL-HSW3960DFT1              | 3712                       | 4387.2 | 220 | 207 | 210 | 3960 | 3832                       | 4089 | 108 | 39                         |    | 108 | 39 | 36 | 200                    | 24 | 180 | 0.5 | 5810         | 6.0MW    |

d                  D                  H                  Dpw                  P                  n

f                  e                  M                  i                  b                  m                  z                  x

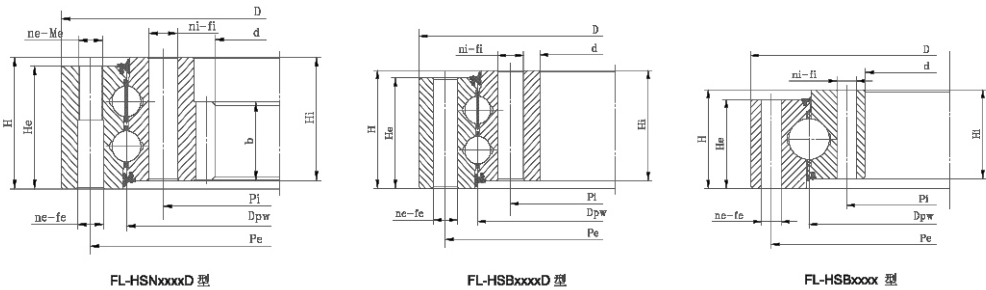
Notes   d    intnerdiameter of bearing   D    Outer   H    Width of bearing   Dpw    Center diameter of roller

P    Center diameter of mounting holes   n    No.of mounting holes   f    Diameter of mounting holes

M    Diameter of screw holes   b    Sear width   m    Module   z    No. of gears   x    Addendum.

Euffix   e    Outer ring   i    Innter ring

变桨轴承 BLADE BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |      |     |     |     |      | 安装尺寸<br>Mounting Dimension |      |    | 安装尺寸<br>Mounting Dimension |    |    |    |    | 齿轮参数<br>Gear Parameter |    |     |     | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|------|-----|-----|-----|------|----------------------------|------|----|----------------------------|----|----|----|----|------------------------|----|-----|-----|--------------|----------|
|                             | d                          | D    | H   | Hi  | He  | Dpw  | Pi                         | Pe   | ni | fi                         | Mi | ne | fe | Me | b                      | m  | z   | x   |              |          |
|                             | mm                         |      |     |     |     |      | mm                         |      |    | mm                         |    |    |    |    | mm                     |    |     |     | kg           |          |
| FL-HSN420FT1                | 325                        | 495  | 58  | 48  | 48  | 420  | 375                        | 469  | 24 |                            | 12 | 24 | 14 |    | 48                     | 5  | 67  | 0   | 37           | 60kW     |
| FL-HSB1100FT                | 945                        | 1255 | 130 | 117 | 117 | 1100 | 1000                       | 1200 | 52 | 26                         |    | 47 | 26 |    |                        |    |     |     | 407          | 850KW    |
| FL-HSN1715FT1               | 1454                       | 1905 | 140 | 126 | 113 | 1715 | 1600                       | 1830 | 50 | 33                         |    | 50 | 33 |    | 90                     | 12 | 122 | 0.5 | 918          | 1.0MW    |
| FL-HSN1700DFT1              | 1470                       | 1870 | 142 | 132 | 134 | 1700 | 1600                       | 1800 | 50 | 33                         |    | 50 | 33 |    | 100                    | 10 | 148 | 0.5 | 878          | 1.25MW   |
| FL-HSB1697DF                | 1524                       | 1895 | 182 | 169 | 169 | 1697 | 1590                       | 1800 | 54 | 33                         |    | 54 | 33 |    |                        |    |     |     | 1110         | 1.5MW    |
| FL-HSB1697DX1F              | 1524                       | 1895 | 182 | 169 | 169 | 1697 | 1590                       | 1800 | 54 | 33                         |    | 64 | 33 |    |                        |    |     |     | 1100         | 1.5MW    |
| FL-HSB1697DKF               | 1524                       | 1895 | 182 | 169 | 169 | 1697 | 1590                       | 1800 | 60 | 33                         |    | 64 | 33 |    |                        |    |     |     | 1113         | 1.5MW    |
| FL-HSN1900DFT               | 1657.3                     | 2080 | 144 | 135 | 133 | 1900 | 1800                       | 2000 | 54 | 33                         |    | 48 | 33 |    | 135                    | 12 | 139 | 0.5 | 1180         | 1.5MW    |
| FL-HSN1900DXFT1             | 1657.3                     | 2080 | 169 | 159 | 159 | 1900 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1240         | 1.5MW    |
| FL-HSN1900DX1FT1            | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 32                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1250         | 1.5MW    |
| FL-HSN1900DX2FT1            | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 32                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1230         | 1.5MW    |
| FL-HSN1900DX2KFT1           | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1230         | 1.5MW    |
| FL-HSN1900DX3FT1            | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1235         | 1.5MW    |
| FL-HSN1900DX4FT1            | 1657                       | 2080 | 182 | 169 | 169 | 1900 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1293         | 1.5MW    |
| FL-HSN1900DX4KFT1           | 1657                       | 2080 | 182 | 169 | 169 | 1900 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1293         | 1.5MW    |
| FL-HSN1900DX4-A5            | 1657.3                     | 2080 | 182 | 169 | 169 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1297         | 1.5MW    |
| FL-HSN1900DX5FT1            | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1235         | 1.5MW    |
| FL-HSN1900DX6FT1            | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1230         | 1.5MW    |
| FL-HSN1900DX6FT2            | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1230         | 1.5MW    |
| FL-HSN1900DX6KFT2           | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1230         | 1.5MW    |
| FL-HSN1900DX8FT1            | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1250         | 1.5MW    |
| FL-HSN1900DA5               | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 33                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1225         | 1.5MW    |
| FL-HSN1901DFT1              | 1657.2                     | 2080 | 170 | 159 | 159 | 1901 | 1800                       | 2000 | 54 | 39                         |    | 68 | 36 |    | 100                    | 12 | 139 | 0.5 | 1170         | 1.5MW    |
| FL-HSN1901DX1               | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 64 | 33                         |    | 64 | 33 |    | 100                    | 12 | 139 | 0.5 | 1215         | 1.5MW    |
| FL-HSN2221DX5KFT1           | 1946.4                     | 2410 | 178 | 168 | 168 | 2221 | 2110                       | 2332 | 64 | 36                         |    | 80 | 33 |    | 120                    | 12 | 163 | 0.5 | 1650         | 1.5MW    |
| FL-HSN1890DFT1              | 1652                       | 2053 | 150 | 138 | 138 | 1890 | 1800                       | 1984 | 54 | 33                         |    | 60 | 33 |    | 120                    | 14 | 119 | 0.5 | 1030         | 2.0MW    |
| FL-HSN1892DFT1              | 1652                       | 2053 | 160 | 148 | 150 | 1892 | 1800                       | 1984 | 54 | 33                         |    | 60 | 33 |    | 120                    | 14 | 119 | 0.5 | 1040         | 2.0MW    |
| FL-HSN1900DX7FT1            | 1652                       | 2060 | 188 | 179 | 175 | 1900 | 1800                       | 2000 | 64 | 30                         |    | 72 | 30 |    | 120                    | 14 | 119 | 0.5 | 1252         | 2.0MW    |
| FL-HSN1900DX2FT1-A5         | 1657.3                     | 2080 | 168 | 158 | 158 | 1901 | 1800                       | 2000 | 54 | 32                         |    | 54 | 33 |    | 100                    | 12 | 139 | 0.5 | 1230         | 2.0MW    |

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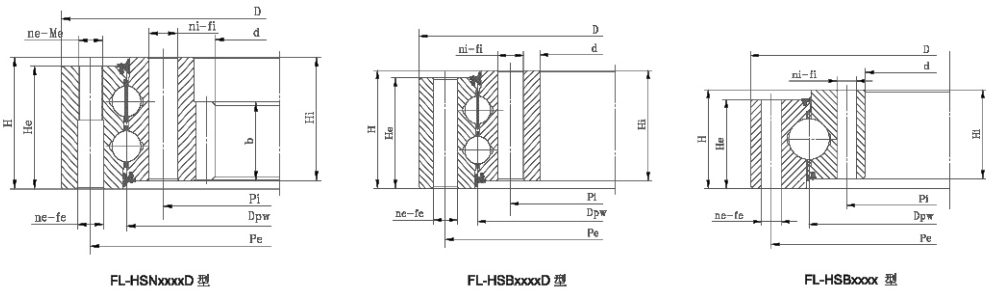
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Notes d innerdiameter of bearing D Outer H Width of bearing Dpw Center diameter of roller P Center diameter of mounting holes n No. of mounting holes f Diameter of mounting holes M Diameter of screw holes b Sear width m Module z No. of gears x Addendum. Euffix e Outer ring i Inner ring

变桨轴承 BLADE BEARING



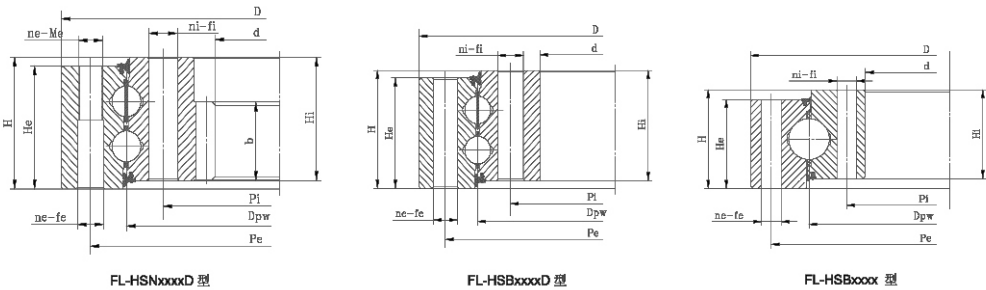
| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |         |     |     |     |      | 安装尺寸<br>Mounting Dimension |      |    | 安装尺寸<br>Mounting Dimension |    |    |    |    | 齿轮参数<br>Gear Parameter |    |     |     | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|---------|-----|-----|-----|------|----------------------------|------|----|----------------------------|----|----|----|----|------------------------|----|-----|-----|--------------|----------|
|                             | d                          | D       | H   | Hi  | He  | Dpw  | Pi                         | Pe   | ni | fi                         | Mi | ne | fe | Me | b                      | m  | z   | x   |              |          |
|                             | mm                         |         |     |     |     |      | mm                         |      |    | mm                         |    |    |    |    | mm                     |    |     |     | kg           |          |
| FL-HSW2175DX1               | 1910                       | 2457.6  | 228 | 215 | 215 | 2175 | 2022                       | 2022 | 71 | 45                         |    | 64 | 39 |    | 120                    | 12 | 202 | 0.5 | 2410         | 2.0MW    |
| FL-HSW2175DX1               | 1910                       | 2457.6  | 228 | 215 | 215 | 2175 | 2022                       | 2022 | 71 | 45                         |    | 64 | 39 |    | 120                    | 12 | 202 | 0.5 | 2410         | 2.0MW    |
| FL-HSW2175DX1K              | 1910                       | 2457.6  | 228 | 215 | 215 | 2175 | 2022                       | 2022 | 71 | 45                         |    | 92 | 39 |    | 120                    | 12 | 202 | 0.5 | 2370         | 2.0MW    |
| FL-HSW2175D                 | 1970                       | 2457.6  | 228 | 215 | 215 | 2175 | 2052                       | 2052 | 71 | 39                         |    | 92 | 39 |    | 120                    | 12 | 202 | 0.5 | 2085         | 2.0MW    |
| FL-HSB2175D                 | 1970                       | 2446    | 228 | 215 | 215 | 2175 | 2052                       | 2052 | 71 | 39                         |    | 64 | 39 |    |                        |    |     |     |              | 2.0MW    |
| FL-HSN2217DFT1              | 1896                       | 2404    | 199 | 189 | 159 | 2217 | 2110                       | 2110 | 60 | 39                         |    | 80 | 39 |    | 120                    | 12 | 159 | 0.5 | 1900         | 2.0MW    |
| FL-HSN2221DX4FT1            | 1920                       | 2418    | 191 | 181 | 181 | 2221 | 2110                       | 2110 | 64 | 33                         |    | 64 | 33 |    | 120                    | 12 | 161 | 0.5 | 1940         | 2.0MW    |
| FL-HSN2221DFT1              | 1944                       | 2410    | 179 | 169 | 169 | 2215 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 120                    | 12 | 163 | 0.5 | 1680         | 2.0MW    |
| FL-HSN2221DX1FT1            | 1944                       | 2410    | 199 | 189 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 120                    | 12 | 163 | 0.5 | 1850         | 2.0MW    |
| FL-HSN2221DX1KFT1           | 1944                       | 2410    | 199 | 189 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 120                    | 12 | 163 | 0.5 | 1850         | 2.0MW    |
| FL-HSN2221DX1K1             | 1944                       | 2410    | 199 | 189 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 72 | 39 |    | 120                    | 12 | 163 | 0.5 | 1840         | 2.0MW    |
| FL-HSN2221DX1K2FT1          | 1944                       | 2410    | 199 | 189 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 120                    | 12 | 163 | 0.5 | 1850         | 2.0MW    |
| FL-HSN2221DX1K3             | 1944                       | 2410    | 199 | 189 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 79 | 39 |    | 120                    | 12 | 163 | 0.5 | 1820         | 2.0MW    |
| FL-HSN2221DX3FT1            | 1944                       | 2410    | 199 | 189 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 120                    | 12 | 163 | 0.5 | 1850         | 2.0MW    |
| FL-HSN2221DX3KFT1           | 1944                       | 2410    | 199 | 189 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 120                    | 12 | 163 | 0.5 | 1850         | 2.0MW    |
| FL-HSN2221DX5FT1            | 1946.4                     | 2410    | 178 | 168 | 168 | 2221 | 2110                       | 2110 | 64 | 33                         |    | 80 | 33 |    | 120                    | 12 | 163 | 0.5 | 1610         | 2.0MW    |
| FL-HSN2221DX6               | 1944                       | 2420    | 199 | 189 | 189 | 2221 | 2097                       | 2097 | 56 | 42                         |    | 79 | 39 |    | 120                    | 12 | 163 | 0.5 | 1875         | 2.0MW    |
| FL-HSN2221DX2FT1            | 1956                       | 2410    | 200 | 191 | 189 | 2221 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 100                    | 12 | 164 | 0.5 | 1800         | 2.0MW    |
| FL-HSN2225DFT1              | 1960                       | 2420    | 196 | 184 | 184 | 2225 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 | 36 | 125                    | 14 | 141 | 0.5 | 1790         | 2.0MW    |
| FL-HSN2225DKF1T1            | 1960                       | 2420    | 196 | 184 | 184 | 2225 | 2110                       | 2110 | 64 | 33                         |    | 60 | 39 | 36 | 125                    | 14 | 141 | 0.5 | 1810         | 2.0MW    |
| FL-HSN2225DX1FT1            | 1960                       | 2420    | 192 | 182 | 182 | 2225 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 |    | 125                    | 14 | 141 | 0.5 | 1740         | 2.0MW    |
| FL-HSN2225DX1KFT1           | 1960                       | 2420    | 192 | 182 | 182 | 2225 | 2110                       | 2110 | 60 | 39                         |    | 60 | 39 | 36 | 125                    | 14 | 141 | 0.5 | 1785         | 2.0MW    |
| FL-HSN2230D                 | 1936                       | 2446    | 229 | 219 | 219 | 2230 | 2110                       | 2110 | 64 | 39                         |    | 72 | 39 |    | 130                    | 16 | 122 | 0.5 | 2330         | 2.0MW    |
| FL-HSN2410DX1K              | 2144                       | 2620    | 197 | 184 | 184 | 2410 | 2300                       | 2300 | 64 | 39                         |    | 92 | 39 |    | 128                    | 16 | 135 | 0.5 | 1940         | 2.0MW    |
| FL-HSN2410DX4               | 2146                       | 2620    | 197 | 184 | 184 | 2410 | 2300                       | 2300 | 92 | 39                         |    | 92 | 39 |    | 128                    | 16 | 135 | 0.5 | 1890         | 2.0MW    |
| FL-HSN2410DX5               | 2147                       | 2620    | 195 | 182 | 182 | 2410 | 2300                       | 2300 | 84 | 39                         |    | 92 | 39 |    | 135                    | 16 | 135 | 0.5 | 1897         | 2.0MW    |
| FL-HSN2410DX5K              | 2147                       | 2620    | 195 | 182 | 182 | 2410 | 2300                       | 2300 | 84 | 39                         |    | 64 | 39 |    | 135                    | 16 | 135 | 0.5 | 1949         | 2.0MW    |
| FL-HSN2423D                 | 2144                       | 2646    | 223 | 210 | 210 | 2423 | 2300                       | 2300 | 92 | 39                         |    | 84 | 39 |    | 135                    | 16 | 135 | 0.5 | 2315         | 2.0MW    |
| FL-HSN2423DX1MK             | 2142                       | 2630    | 215 | 202 | 202 | 2423 | 2300                       | 2300 | 64 | 39                         |    | 91 | 39 |    | 128                    | 14 | 154 | 0.5 | 2200         | 2.0MW    |
| FL-HSN2250D                 | 1896                       | 2474    | 199 | 189 | 189 | 2250 | 2110                       | 2110 | 60 | 39                         |    | 79 | 39 |    | 120                    | 12 | 159 | 0.5 | 2330         | 2.1MW    |
| FL-HSN2203DFT1              | 1956                       | 2392    | 181 | 171 | 171 | 2203 | 2100                       | 2100 | 60 | 39                         |    | 60 | 39 |    | 100                    | 12 | 164 | 0.5 | 1450         | 2.1MW    |
| FL-HSN2410DX6               | 2147                       | 2620.00 | 195 | 182 | 182 | 2410 | 2300                       | 2300 | 92 | 39                         |    | 84 | 39 |    | 135                    | 16 | 135 |     | 1900         | 2.3MW    |
| FL-HSN2418D                 | 2160                       | 2615    | 191 | 181 | 181 | 2418 | 2300                       | 2300 | 64 | 39                         |    | 64 | 39 |    | 120                    | 12 | 181 |     | 1900         | 2.3MW    |

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Notes d innerdiameter of bearing D Outer H Width of bearing Dpw Center diameter of roller  
P Center diameter of mounting holes n No. of mounting holes f Diameter of mounting holes  
M Diameter of screw holes b Sear width m Module z No. of gears x Addendum.  
Euffix e Outer ring i Inner ring

变桨轴承 BLADE BEARING

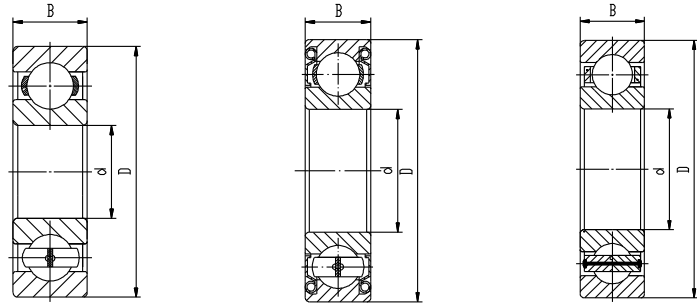


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |         |     |     |     |      | 安装尺寸<br>Mounting Dimension |      |     | 安装尺寸<br>Mounting Dimension |     |     |    |    | 齿轮参数<br>Gear Parameter |    |     |     | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|---------|-----|-----|-----|------|----------------------------|------|-----|----------------------------|-----|-----|----|----|------------------------|----|-----|-----|--------------|----------|
|                             | d                          | D       | H   | Hi  | He  | Dpw  | Pi                         | Pe   | ni  | fi                         | Mi  | ne  | fe | Me | b                      | m  | z   | x   |              |          |
|                             | mm                         |         |     |     |     |      | mm                         |      |     | mm                         |     |     |    |    | mm                     |    |     |     | kg           |          |
| FL-HSB2421DFT               | 2226                       | 2647    | 237 | 224 | 224 | 2421 | 2300                       | 2552 | 54  | 39                         |     | 54  | 39 |    |                        |    |     |     | 2400         | 2.3MW    |
| FL-HSB2421D                 | 2226                       | 2677    | 237 | 224 | 224 | 2421 | 2300                       | 2552 | 54  | 39                         |     | 54  | 39 |    |                        |    |     |     | 2630         | 2.3MW    |
| FL-HSB2421DK                | 2226                       | 2677    | 237 | 224 | 224 | 2421 | 2300                       | 2552 | 54  | 39                         |     | 100 | 39 |    |                        |    |     |     | 2540         | 2.3MW    |
| FL-HSB2421DK1               | 2226                       | 2677    | 237 | 224 | 224 | 2421 | 2300                       | 2558 | 54  | 39                         |     | 106 | 39 |    |                        |    |     |     | 2520         | 2.3MW    |
| FL-HSB2421DKFT              | 2226                       | 2677    | 237 | 224 | 224 | 2421 | 2300                       | 2552 | 54  | 39                         |     | 100 | 39 |    |                        |    |     |     | 2540         | 2.3MW    |
| FL-HSB2154D                 | 1908                       | 2446    | 264 | 251 | 251 | 2154 | 2300                       | 2350 | 78  | 39                         |     | 92  | 39 |    |                        |    |     |     |              | 2.5MW    |
| FL-HSW2180DFT1              | 1940                       | 2526.70 | 207 | 194 | 194 | 2180 | 2060                       | 2300 | 72  | 39                         |     | 64  | 39 |    | 135                    | 16 | 155 | 0.5 | 2500         | 2.5MW    |
| FL-HSN2410DX4               | 2146                       | 2620    | 197 | 184 | 184 | 2410 | 2300                       | 2520 | 92  | 39                         |     | 92  | 39 |    | 128                    | 16 | 135 | 0.5 | 1890         | 2.5MW    |
| FL-HSN2420D                 | 2147                       | 2630    | 233 | 220 | 220 | 2420 | 2300                       | 2540 | 92  | 39                         |     | 82  | 39 |    | 135                    | 16 | 135 | 0.5 | 2320         | 2.5MW    |
| FL-HSN2410DX1FT2            | 2144                       | 2615    | 197 | 184 | 184 | 2410 | 2300                       | 2520 | 64  | 39                         |     | 92  | 39 |    | 135                    | 16 | 135 | 0.5 | 1955         | 3.0MW    |
| FL-HSN2410DFT1              | 2147                       | 2620    | 195 | 182 | 182 | 2410 | 2300                       | 2520 | 64  | 39                         |     | 82  | 39 |    | 135                    | 16 | 135 | 0.5 | 1930         | 3.0MW    |
| FL-HSN2410DX2FT1            | 2144                       | 2620    | 197 | 184 | 184 | 2410 | 2300                       | 2520 | 64  | 39                         |     | 92  | 39 |    | 135                    | 16 | 135 | 0.5 | 1940         | 3.0MW    |
| FL-HSN2423DX1               | 2144                       | 2630    | 215 | 202 | 202 | 2423 | 2300                       | 2546 | 92  | 39                         |     | 92  | 39 |    | 135                    | 16 | 135 | 0.5 | 2120         | 3.0MW    |
| FL-HSB2485DFT               | 2290                       | 2678    | 228 | 203 | 202 | 2485 | 2371                       | 2600 | 72  | 39                         |     | 72  | 39 |    |                        |    |     |     |              | 3.0MW    |
| FL-HSB2640DFT               | 2420                       | 2920    | 282 | 259 | 280 | 2640 | 2500                       | 2780 | 72  | 39                         | 100 | 39  |    |    |                        |    |     |     | 3780         | 3.6MW    |
| FL-HSB2648D                 | 2420                       | 2966    | 271 | 254 | 254 | 2648 | 2500                       | 2802 | 72  | 39                         |     | 108 | 45 |    |                        |    |     |     | 3830         | 4.0MW    |
| FL-HSN3350DFT1              | 2964                       | 3620    | 264 | 251 | 251 | 3350 | 3127                       | 3500 | 128 | 39                         |     | 126 | 39 |    | 160                    | 20 | 149 | 0.5 | 5160         | 5.0MW    |
| FL-HSN3350DX1FT1            | 2964                       | 3620    | 264 | 251 | 251 | 3350 | 3127                       | 3500 | 128 | 39                         |     | 126 | 39 |    | 160                    | 20 | 149 | 0.5 | 5180         | 5.0MW    |
| FL-HSN3340DFT1              | 2988                       | 3675    | 272 | 259 | 259 | 3340 | 3139                       | 3480 | 96  | 45                         |     | 112 | 45 |    | 120                    | 18 | 167 | 0.5 | 5700         | 6.0MW    |

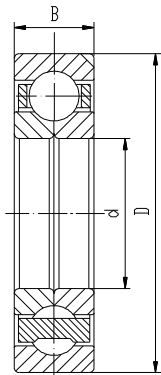
d D H Dpw P n  
f M  
e i b m z x

Notes d innerdiameter of bearing D Outer H Width of bearing Dpw Center diameter of roller  
P Center diameter of mounting holes n No.of mounting holes f Diameter of mounting holes  
M Diameter of screw holes b Sear width m Module z No. of gears x Addendum.  
Euffix e Outer ring i Inner ring

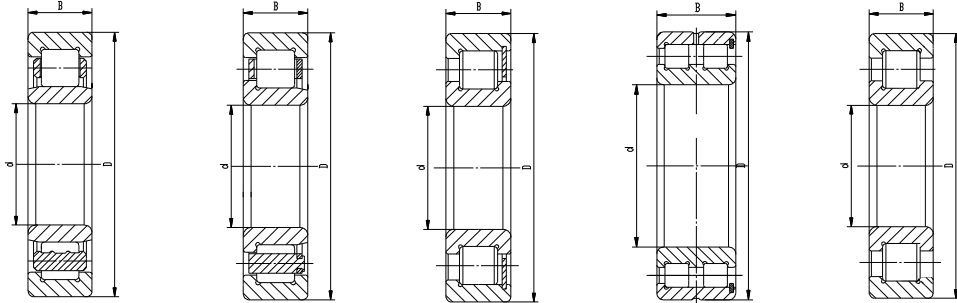
增速机轴承 GEARBOX BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B  | Cr                          | Cor  |              |          |
|                             | mm                         |     |    | kN                          |      | kg           |          |
| FL-6005/C3                  | 25                         | 47  | 12 | 10                          | 5.85 | 0.0787       | 1.5MW    |
| FL-6010                     | 50                         | 80  | 16 | 20.8                        | 15.4 | 0.255        | 1.5MW    |
| FL-6210                     | 50                         | 90  | 20 | 33                          | 21.8 | 0.474        | 1.5MW    |
| FL-6216-2Z                  | 80                         | 140 | 26 | 66                          | 50   | 1.5          | 1.5MW    |
| FL-6026                     | 130                        | 200 | 33 | 100                         | 94   | 3.29         | 1.5MW    |
| FL-61984MA/C3               | 420                        | 560 | 65 | 320                         | 520  | 46.2         | 1.5MW    |



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    | 基本额定载荷<br>Basic load rating |     | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-----------------------------|-----|--------------|----------|
|                             | d                          | D   | B  | Cr                          | Cor |              |          |
|                             | mm                         |     |    | kN                          |     | kg           |          |
| FL-QJ222N2                  | 110                        | 200 | 38 | 250                         | 285 | 5.37         | 800KW    |
| FL-QJ324N2                  | 120                        | 260 | 55 | 310                         | 515 | 15.2         | 1.5MW    |
| FL-QJ226N2                  | 130                        | 230 | 40 | 290                         | 370 | 7.5          | 1.5MW    |
| FL-QJ326N2                  | 130                        | 280 | 58 | 420                         | 560 | 20.1         | 1.5MW    |
| FL-QJ228N2                  | 140                        | 250 | 42 | 315                         | 410 | 9.63         | 1.5MW    |
| FL-QJ332N2/C3               | 160                        | 340 | 68 | 540                         | 785 | 31.1         | 2.0MW    |
| FL-QJ232N2/C3               | 160                        | 290 | 48 | 370                         | 530 | 14.9         | 2.0MW    |
| FL-QJ328N2/C3               | 140                        | 300 | 62 | 469                         | 645 | 22.5         | 2.5MW    |
| FL-QJ228N2/C3               | 140                        | 250 | 42 | 315                         | 410 | 9.63         | 8MW      |

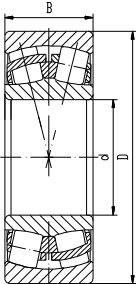


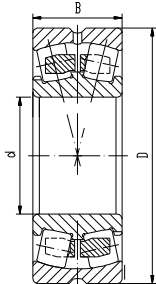
| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |     | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|-----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B   | Cr                          | Cor  |              |          |
|                             | mm                         |     |     | kN                          |      | kg           |          |
| FL-NU1016M                  | 80                         | 125 | 22  | 60                          | 80   | 1.1          | 800KW    |
| FL-NU2222EM                 | 110                        | 200 | 53  | 370                         | 500  | 7.63         | 800KW    |
| FL-NJ2232EM                 | 160                        | 290 | 80  | 810                         | 1190 | 24.7         | 800KW    |
| FL-NCF1868V                 | 340                        | 420 | 38  | 440                         | 940  | 11.5         | 800KW    |
| FL-NCF1892V                 | 460                        | 580 | 56  | 1050                        | 2100 | 34.4         | 800KW    |
| FL-NJ2324EQ1A               | 120                        | 260 | 86  | 860                         | 1040 | 24.1         | 1.5MW    |
| FL-NJ2324EQ1A/C3            | 120                        | 260 | 86  | 860                         | 1040 | 24.1         | 1.5MW    |
| FL-NU1026M                  | 130                        | 200 | 33  | 192                         | 274  | 4.64         | 1.5MW    |
| FL-NU226M                   | 130                        | 230 | 40  | 300                         | 390  | 7.29         | 1.5MW    |
| FL-NU2226EMA/C3             | 130                        | 230 | 64  | 595                         | 795  | 11.2         | 1.5MW    |
| FL-NU2326MA                 | 130                        | 280 | 93  | 920                         | 1230 | 28.7         | 1.5MW    |
| FL-NU326EMA                 | 130                        | 280 | 58  | 595                         | 795  | 18.7         | 1.5MW    |
| FL-NU2228EMA/C3             | 140                        | 250 | 68  | 574                         | 836  | 14.2         | 1.5MW    |
| FL-NU328MA/C3H              | 140                        | 300 | 62  | 620                         | 780  | 22.2         | 1.5MW    |
| FL-NJ2330V                  | 150                        | 320 | 108 | 1380                        | 1930 | 42.7         | 1.5MW    |
| FL-NU2332EMA/C3H            | 160                        | 340 | 114 | 1065                        | 1590 | 49.7         | 1.5MW    |
| FL-NNCF5034V/C3             | 170                        | 260 | 122 | 1060                        | 2120 | 21.4         | 1.5MW    |
| FL-NU234EM                  | 170                        | 310 | 52  | 640                         | 870  | 18.4         | 1.5MW    |
| FL-NJ334M                   | 170                        | 360 | 72  | 857                         | 1040 | 38.4         | 1.5MW    |
| FL-NJ2334V                  | 170                        | 360 | 120 | 1700                        | 2410 | 59.9         | 1.5MW    |
| FL-NU2236EM                 | 180                        | 320 | 86  | 1040                        | 1580 | 31.1         | 1.5MW    |
| FL-NJ2236EMA                | 180                        | 320 | 86  | 1010                        | 1520 | 31.8         | 1.5MW    |
| FL-NJ2240EM                 | 200                        | 360 | 98  | 1120                        | 1900 | 44.1         | 1.5MW    |
| FL-NNCF5044V/C3             | 220                        | 340 | 160 | 1750                        | 3650 | 53.1         | 1.5MW    |
| FL-NJ244M                   | 220                        | 400 | 65  | 839                         | 1220 | 35.4         | 1.5MW    |
| FL-NCF2244V                 | 220                        | 400 | 108 | 1710                        | 2530 | 53.1         | 1.5MW    |
| FL-NJ2344V/C3H              | 220                        | 460 | 145 | 2580                        | 3530 | 111          | 1.5MW    |
| FL-NCF2952V/C3              | 260                        | 360 | 60  | 730                         | 1390 | 17           | 1.5MW    |
| FL-NU1964EMA                | 320                        | 440 | 56  | 670                         | 1150 | 24.7         | 1.5MW    |
| FL-NU1072M                  | 360                        | 540 | 82  | 1450                        | 2080 | 64.8         | 1.5MW    |
| FL-NCF2888V                 | 440                        | 540 | 60  | 1020                        | 2550 | 28.9         | 1.5MW    |
| FL-NCF29/530V               | 530                        | 710 | 106 | 2600                        | 5600 | 110          | 1.5MW    |
| FL-NCF18/530V               | 530                        | 650 | 56  | 1020                        | 2320 | 33.9         | 1.5MW    |
| FL-NCF18/600V/HCEC9         | 600                        | 730 | 60  | 1180                        | 2950 | 50.5         | 1.5MW    |
| FL-NCF18/670V               | 670                        | 820 | 69  | 1320                        | 3230 | 72.2         | 1.5MW    |
| FL-NU224M                   | 120                        | 215 | 40  | 290                         | 365  | 5.87         | 2.0MW    |
| FL-NU2326EMA/C3M            | 130                        | 280 | 93  | 930                         | 1240 | 30           | 2.0MW    |

增速机轴承GEARBOX BEARING

|                             |                            |      |     |                             |       |              |          |
|-----------------------------|----------------------------|------|-----|-----------------------------|-------|--------------|----------|
| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |      |     | 基本额定载荷<br>Basic load rating |       | 重量<br>Weight | 机型<br>WT |
|                             | d                          | D    | B   | Cr                          | Cor   |              |          |
|                             | mm                         |      |     | kN                          |       | kg           |          |
| FL-NU1028M                  | 140                        | 210  | 33  | 183                         | 263   | 3.89         | 2.0MW    |
| FL-NU2330EMA                | 150                        | 320  | 108 | 1140                        | 1570  | 42.6         | 2.0MW    |
| FL-NU332EMA                 | 160                        | 340  | 68  | 870                         | 1080  | 31.4         | 2.0MW    |
| FL-NU332EMA/C3M             | 160                        | 340  | 68  | 870                         | 1080  | 30.1         | 2.0MW    |
| FL-NU2232EMA/C3             | 160                        | 290  | 80  | 950                         | 1210  | 23           | 2.0MW    |
| FL-NJ2336V/DF               | 180                        | 380  | 252 | 3210                        | 5430  | 139          | 2.0MW    |
| FL-NUP2336V                 | 180                        | 380  | 126 | 1870                        | 2170  | 70.6         | 2.0MW    |
| FL-NU2240EM/C3M             | 200                        | 360  | 98  | 1240                        | 1900  | 44.8         | 2.0MW    |
| FL-NU2240EM/C3H             | 200                        | 360  | 98  | 1240                        | 1900  | 44.8         | 2.0MW    |
| FL-NU2340EM/C3              | 200                        | 420  | 138 | 2070                        | 2940  | 95.5         | 2.0MW    |
| FL-NNCF5052V/C3             | 260                        | 400  | 190 | 2370                        | 4950  | 85.9         | 2.0MW    |
| FL-NNCF5052V/C3L            | 260                        | 400  | 190 | 2660                        | 5120  | 81.4         | 2.0MW    |
| FL-NJ2980/HCEC9             | 400                        | 540  | 82  | 1340                        | 2780  | 56.2         | 2.0MW    |
| FL-NU1080M/CNH              | 400                        | 600  | 90  | 1420                        | 2420  | 89.5         | 2.0MW    |
| FL-NU1088M/CNH              | 440                        | 650  | 94  | 1540                        | 2680  | 106          | 2.0MW    |
| FL-NJ2892/HCEC9             | 460                        | 580  | 72  | 1090                        | 2480  | 46.1         | 2.0MW    |
| FL-NCF18/530V/CNL           | 530                        | 650  | 56  | 1020                        | 2320  | 33.9         | 2.0MW    |
| FL-NU29/560/C3              | 560                        | 750  | 112 | 2470                        | 5570  | 146          | 2.0MW    |
| FL-NCF18/560V/CNM           | 560                        | 680  | 56  | 1010                        | 2450  | 40.3         | 2.0MW    |
| FL-NCF18/600V               | 600                        | 730  | 60  | 1180                        | 2950  | 50.5         | 2.0MW    |
| FL-NCF18/600V/CNL           | 600                        | 730  | 60  | 1180                        | 2950  | 50.5         | 2.0MW    |
| FL-NCF18/630V               | 630                        | 780  | 69  | 1400                        | 3270  | 70.7         | 2.0MW    |
| FL-NCF28/750V               | 750                        | 920  | 100 | 2720                        | 6590  | 140          | 2.0MW    |
| FL-NCF28/750V/CNL           | 750                        | 920  | 100 | 2300                        | 6260  | 140          | 2.0MW    |
| FL-NCF28/750V/CNH           | 750                        | 920  | 100 | 2300                        | 6260  | 140          | 2.0MW    |
| FL-NCF28/800V/HCEC9         | 800                        | 980  | 106 | 2860                        | 7900  | 168          | 2.0MW    |
| FL-NCF29/800V               | 800                        | 1060 | 150 | 4770                        | 11450 | 360          | 2.0MW    |
| FL-NU2332EMB                | 160                        | 340  | 114 | 1201                        | 1593  | 49.2         | 2.3MW    |
| FL-NJ2236EM                 | 180                        | 320  | 86  | 1010                        | 1520  | 30.9         | 2.3MW    |
| FL-NU2234EMA/C3             | 170                        | 310  | 86  | 973                         | 1430  | 28.8         | 2.5MW    |
| FL-NJ236EM/C3               | 180                        | 320  | 52  | 635                         | 870   | 18.9         | 2.5MW    |
| FL-NU2236MA/C3H             | 180                        | 320  | 86  | 930                         | 1480  | 62.2         | 2.5MW    |
| FL-NUP2340V/C3H             | 200                        | 420  | 138 | 2290                        | 3160  | 93.1         | 2.5MW    |
| FL-NU2344M/C3               | 220                        | 460  | 145 | 1880                        | 2830  | 121          | 2.5MW    |
| FL-NJ2344V/C3HDF            | 220                        | 460  | 290 | 4420                        | 7070  | 223          | 2.5MW    |
| FL-NNCF5044X3V/C3M          | 220                        | 455  | 180 | 3230                        | 4390  | 138          | 2.5MW    |
| FL-NUP1064M/C3              | 320                        | 480  | 74  | 910                         | 1490  | 48.3         | 2.5MW    |

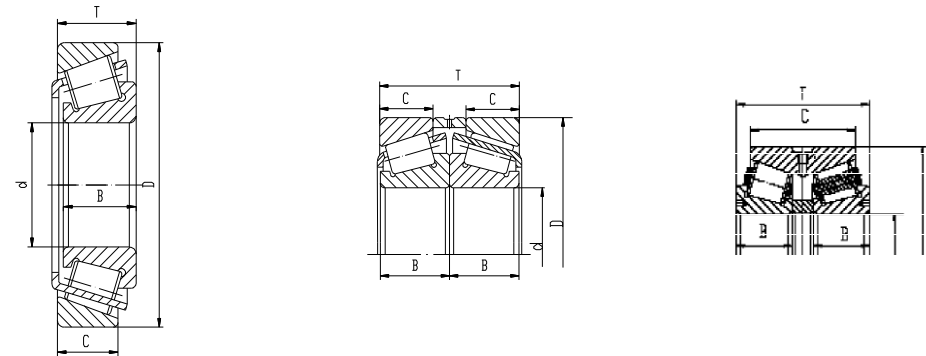
|                             |                            |     |     |                             |      |              |          |
|-----------------------------|----------------------------|-----|-----|-----------------------------|------|--------------|----------|
| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |     | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|                             | d                          | D   | B   | Cr                          | Cor  |              |          |
|                             | mm                         |     |     | kN                          |      |              |          |
| FL-NNU3164V/C3              | 320                        | 540 | 176 | 2990                        | 5860 | 164          | 2.5MW    |
| FL-NU1980M/C3               | 400                        | 540 | 65  | 960                         | 1750 | 41.5         | 2.5MW    |
| FL-NU2988EM/CNH             | 440                        | 600 | 95  | 1600                        | 3360 | 81.5         | 2.5MW    |
| FL-NU2234MA/C3H             | 170                        | 310 | 86  | 840                         | 1320 | 32           | 8MW      |
| FL-NU2348M/C3H              | 240                        | 500 | 155 | 2115                        | 3220 | 152          | 8MW      |
| FL-NU264M/CNH               | 320                        | 580 | 92  | 1625                        | 2430 | 113          | 8MW      |
| FL-NNU30/530V/CNH           | 530                        | 780 | 185 | 4275                        | 9615 | 300          | 8MW      |
| FL-NNU30/530V/C3L           | 530                        | 780 | 185 | 4275                        | 9615 | 300          | 8MW      |



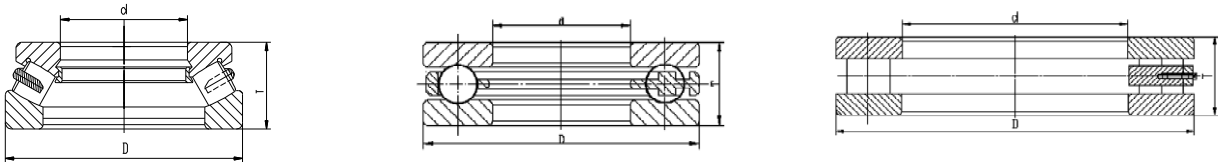


|                             |                            |     |     |                             |      |              |          |
|-----------------------------|----------------------------|-----|-----|-----------------------------|------|--------------|----------|
| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |     | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|                             | d                          | D   | B   | Cr                          | Cor  |              |          |
|                             | mm                         |     |     | kN                          |      |              |          |
| FL-23226C/W33               | 130                        | 230 | 80  | 580                         | 910  | 14.9         | 800KW    |
| FL-23232C/W33               | 160                        | 290 | 104 | 1020                        | 1600 | 36.1         | 800KW    |
| FL-23134C/W33               | 170                        | 280 | 88  | 870                         | 1450 | 22.8         | 800KW    |
| FL-23964C/W33               | 320                        | 440 | 90  | 1219                        | 2650 | 39.5         | 800KW    |
| FL-23140C/W33               | 200                        | 340 | 112 | 1340                        | 2240 | 41.6         | 1.5MW    |
| FL-22340C/W33               | 200                        | 420 | 138 | 2000                        | 2870 | 92           | 1.5MW    |
| FL-23060C/W33               | 300                        | 460 | 118 | 1770                        | 3450 | 69.5         | 1.5MW    |
| FL-23072C/W33               | 360                        | 540 | 134 | 2280                        | 4800 | 124          | 1.5MW    |
| FL-23240/W33                | 200                        | 360 | 128 | 1490                        | 2370 | 56.5         | 2.0MW    |
| FL-22344/W33                | 220                        | 460 | 145 | 2120                        | 3160 | 122          | 2.0MW    |
| FL-23068/W33                | 340                        | 520 | 133 | 2070                        | 3870 | 107          | 2.0MW    |
| FL-23992/W33                | 460                        | 620 | 118 | 2040                        | 4570 | 105          | 2.0MW    |

增速机轴承 GEARBOX BEARING

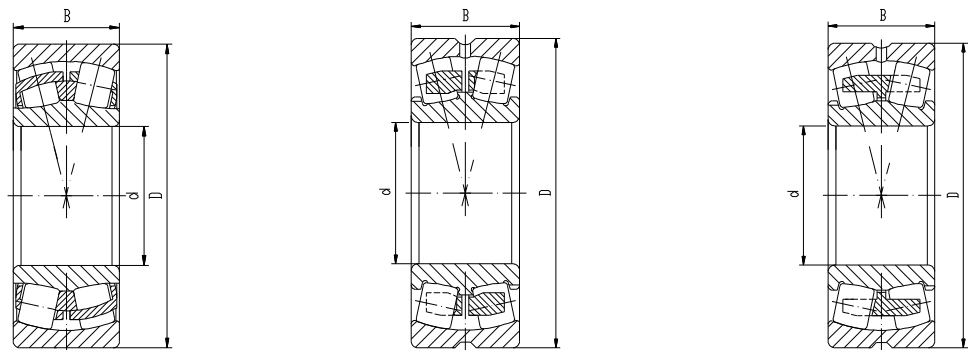


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |        |         |         |        | 基本额定载荷<br>Basic load rating |       | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|--------|---------|---------|--------|-----------------------------|-------|--------------|----------|
|                             | d                          | D      | B       | T       | C      | Cr                          | Cor   |              |          |
|                             | mm                         |        |         |         |        | kN                          |       | kg           |          |
| FL-31328/DF                 | 140                        | 300    | 70      | 154     | 47     | 1100                        | 1850  | 50.3         | 1.5MW    |
| FL-30230                    | 150                        | 270    | 45      | 49      | 38     | 465                         | 630   | 10.6         | 1.5MW    |
| FL-32230                    | 150                        | 270    | 73      | 77      | 60     | 750                         | 1230  | 18.4         | 1.5MW    |
| FL-32234/DF                 | 170                        | 310    | 73      | 182     | 71     | 1700                        | 3250  | 62.4         | 1.5MW    |
| FL-32044                    | 220                        | 340    | 73      | 76      | 57     | 850                         | 1520  | 24.2         | 1.5MW    |
| FL-32244/DF                 | 220                        | 400    | 73      | 228     | 90     | 2750                        | 5350  | 130          | 1.5MW    |
| FL-32948X2A                 | 240                        | 320    | 73      | 51      | 41     | 395                         | 790   | 10.8         | 1.5MW    |
| FL-32056                    | 280                        | 420    | 73      | 87      | 65     | 1200                        | 2300  | 40.4         | 1.5MW    |
| FL-32964X2A                 | 320                        | 440    | 73      | 76      | 62     | 960                         | 1940  | 32.1         | 1.5MW    |
| FL-KHM262749/KMH262710      | 346.075                    | 488.95 | 73      | 95.25   | 74.612 | 1420                        | 2900  | 52.1         | 1.5MW    |
| FL-32972                    | 360                        | 480    | 73      | 76      | 57     | 1020                        | 2390  | 38.5         | 1.5MW    |
| FL-32972/DF                 | 360                        | 480    | 73      | 152     | 57     | 1570                        | 4780  | 79.2         | 1.5MW    |
| FL-31072X2/DF               | 360                        | 540    | 73      | 172     | 63.5   | 2170                        | 4400  | 123          | 1.5MW    |
| FL-KM270749/KM270710        | 447.675                    | 635    | 73      | 120.65  | 95.25  | 2150                        | 4830  | 118          | 1.5MW    |
| FL-KEE649240/K649310        | 609.6                      | 787.4  | 73      | 93.662  | 69.85  | 1920                        | 4750  | 110          | 1.5MW    |
| FL-KLL481448/KLL481411      | 673.1                      | 793.75 | 73      | 66.675  | 49.212 | 1040                        | 2960  | 52.3         | 1.5MW    |
| FL-KEE763330/K763410        | 838.2                      | 1041.4 | 73      | 93.662  | 66.675 | 2230                        | 5460  | 158          | 1.5MW    |
| FL-32956                    | 280                        | 380    | 63.5    | 63.5    | 48     | 740                         | 1540  | 20.1         | 2.0MW    |
| FL-32972/YA5                | 360                        | 480    | 76      | 76      | 57     | 1100                        | 2540  | 37.4         | 2.0MW    |
| FL-306/500                  | 500                        | 640    | 80      | 80      | 60     | 1350                        | 3260  | 60.7         | 2.0MW    |
| FL-3506/938X4               | 938.212                    | 1270   | 169.1   | 406.2   | 266.5  | 9040                        | 29000 | 1440         | 2.0MW    |
| FL-KLM770949/KLM770910/DF   | 457.2                      | 603.25 | 84.138  | 171.45  | 60.325 | 2300                        | 6470  | 130          | 2.0MW    |
| FL-30244+32244/DF           | 220                        | 400    | 65/108  | 186     | 54/90  | 2230                        | 4080  | 104          | 2.0MW    |
| FL-KLM567949/KLM567910/DF   | 549.275                    | 406.4  | 84.138  | 171.45  | 61.912 | 2520                        | 5410  | 111          | 2.0MW    |
| FL-30344/DF                 | 220                        | 460    | 88      | 194     | 73     | 2450                        | 3940  | 147          | 2.0MW    |
| FL-KJM272749/KJM272710/DF   | 479.425                    | 679.45 | 128.588 | 257.176 | 101.6  | 5080                        | 11500 | 298          | 2.0MW    |
| FL-32252/DF                 | 260                        | 480    | 130     | 274     | 105    | 3740                        | 7360  | 218          | 2.0MW    |
| FL-32234/DF                 | 170                        | 310    | 86      | 182     | 86     | 1723                        | 3230  | 62.1         | 2.3MW    |
| FL-32232/YA8                | 160                        | 290    | 80      | 84      | 67     | 890                         | 1420  | 23.5         | 2.5MW    |
| FL-32232/DFYA8              | 160                        | 290    | 80      | 168     | 67     | 1520                        | 2830  | 48.6         | 2.5MW    |
| FL-30244                    | 220                        | 400    | 65      | 72      | 54     | 990                         | 1400  | 36.8         | 2.5MW    |
| FL-32048/DF                 | 240                        | 360    | 76      | 152     | 57     | 1465                        | 3200  | 53.2         | 2.5MW    |
| FL-32044/DF                 | 220                        | 340    | 76      | 152     | 57     | 1460                        | 3050  | 50           | 8MW      |
| FL-32248/DF                 | 240                        | 440    | 120     | 254     | 100    | 3210                        | 6310  | 169          | 8MW      |
| FL-30352/DF                 | 260                        | 540    | 102     | 226     | 85     | 3360                        | 5535  | 245          | 8MW      |

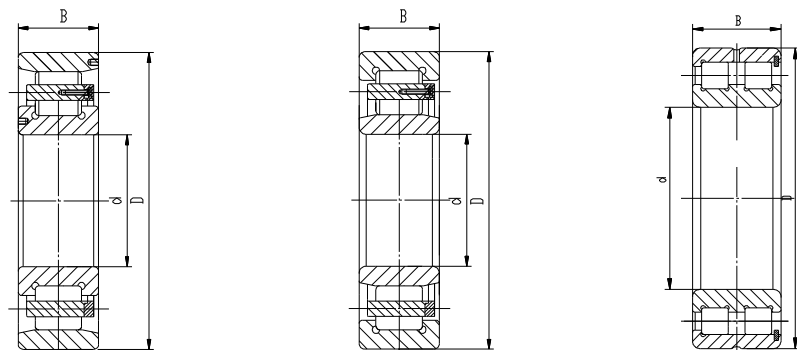


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |     | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|-----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | T   | Cr                          | Cor  |              |          |
|                             | mm                         |     |     | kN                          |      | kg           |          |
| FL-29268                    | 340                        | 460 | 73  | 1380                        | 6450 | 34.7         | 1.5MW    |
| FL-89415ZW                  | 75                         | 160 | 51  | 390                         | 1500 | 5.95         | 2.5MW    |
| FL-51334                    | 170                        | 280 | 87  | 578                         | 1580 | 20.3         | 2.5MW    |
| FL-89436ZW-1                | 180                        | 360 | 109 | 1900                        | 7480 | 60.3         | 2.5MW    |

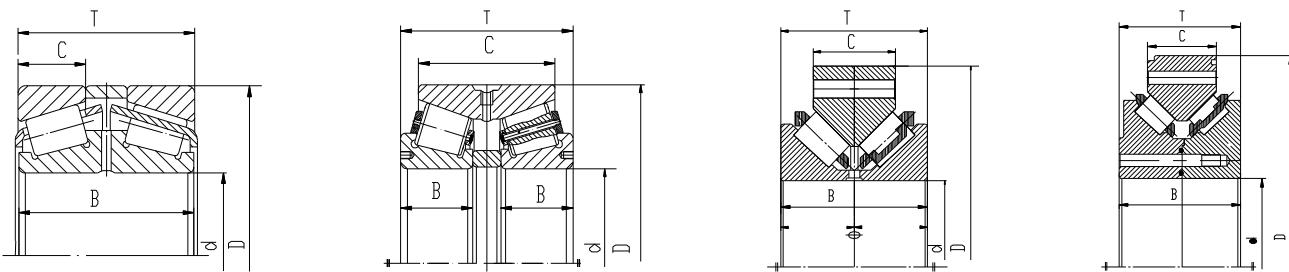
主轴轴承 ROTOR BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |      |     | 基本额定载荷<br>Basic load rating |       | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|------|-----|-----------------------------|-------|--------------|----------|
|                             | d                          | D    | B   | Cr                          | Cor   |              |          |
|                             | mm                         |      |     | kN                          |       | kg           |          |
| FL-24084/W33                | 420                        | 620  | 200 | 3560                        | 7590  | 208          | 750KW    |
| FL-23160C/W33               | 300                        | 500  | 160 | 2710                        | 4900  | 128          | 850KW    |
| FL-23064/W33                | 320                        | 480  | 121 | 1870                        | 3560  | 78.1         | 850KW    |
| FL-240/560/W33              | 560                        | 820  | 258 | 5950                        | 13500 | 472          | 1.0MW    |
| FL-240/530/W33              | 530                        | 780  | 250 | 5300                        | 12100 | 416          | 1.5MW    |
| FL-240/600/CNMW33           | 600                        | 870  | 272 | 7690                        | 15900 | 550          | 1.5MW    |
| FL-240/630/W33              | 630                        | 920  | 290 | 7350                        | 17100 | 661          | 1.5MW    |
| FL-239/670CA/W33            | 670                        | 900  | 170 | 4370                        | 10600 | 315          | 1.5MW    |
| FL-230/800/YAD              | 800                        | 1150 | 258 | 9110                        | 19000 | 899          | 1.5MW    |
| FL-240/800/W33              | 800                        | 1150 | 345 | 11000                       | 26000 | 1200         | 1.5MW    |
| FL-239/800/CA               | 800                        | 1060 | 195 | 5750                        | 14200 | 481          | 1.5MW    |
| FL-240/800/W520             | 800                        | 1150 | 345 | 11000                       | 26000 | 1200         | 1.5MW    |
| FL-24188/W33                | 440                        | 720  | 280 | 6500                        | 12100 | 460          | 2.0MW    |
| FL-240/600/W33              | 600                        | 870  | 272 | 7690                        | 15900 | 550          | 2.0MW    |
| FL-240/600/CNHW33           | 600                        | 870  | 272 | 6640                        | 15500 | 550          | 2.0MW    |
| FL-230/630CA/W33            | 630                        | 920  | 212 | 5900                        | 12800 | 473          | 2.0MW    |
| FL-239/750CA/W33            | 750                        | 1000 | 185 | 5730                        | 12900 | 414          | 2.0MW    |
| FL-239/750CA/W33YB1         | 750                        | 1000 | 185 | 5280                        | 12900 | 414          | 2.0MW    |
| FL-240/750/W33              | 750                        | 1090 | 335 | 11800                       | 25000 | 1072         | 2.0MW    |
| FL-249/750CA/W33            | 750                        | 1000 | 250 | 6580                        | 17900 | 566          | 2.0MW    |
| FL-230/750CA/W33            | 750                        | 1090 | 250 | 8060                        | 17900 | 787          | 2.0MW    |
| FL-230/800/W33              | 800                        | 1150 | 258 | 9110                        | 19000 | 904          | 2.0MW    |
| FL-239/850CA/W33            | 850                        | 1120 | 200 | 6200                        | 15570 | 541          | 2.0MW    |
| FL-239/850CA/W33YB1         | 850                        | 1120 | 200 | 6200                        | 15570 | 541          | 2.0MW    |
| FL-239/900CA/W33            | 900                        | 1180 | 206 | 6850                        | 16400 | 616          | 2.0MW    |
| FL-240/710/W33              | 710                        | 1030 | 315 | 8970                        | 21200 | 888          | 3.0MW    |
| FL-240/850CA/W33            | 850                        | 1220 | 365 | 11400                       | 29700 | 1416         | 3.0MW    |
| FL-240/900/W26              | 900                        | 1280 | 375 | 11700                       | 32100 | 1610         | 3.0MW    |

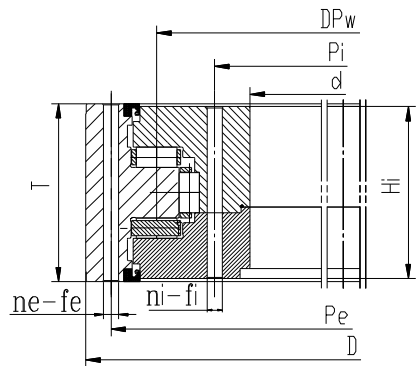


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |      |     | 基本额定载荷<br>Basic load rating |       | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|------|-----|-----------------------------|-------|--------------|----------|
|                             | d                          | D    | B   | Cr                          | Cor   |              |          |
|                             | mm                         |      |     | kN                          |       | kg           |          |
| FL-NJ28/710EMA              | 710                        | 870  | 95  | 1970                        | 5080  | 125          | 1.5MW    |
| FL-NNU49/710/W33            | 710                        | 950  | 243 | 5080                        | 14400 | 490          | 1.5MW    |
| FL-N6/1200/YAD              | 1200                       | 1520 | 185 | 6240                        | 17000 | 810          | 1.5MW    |
| FL-NU6/1200                 | 1200                       | 1520 | 185 | 6240                        | 17000 | 832          | 1.5MW    |
| FL-N18/1600                 | 1600                       | 1950 | 155 | 6640                        | 18500 | 1060         | 3.0MW    |

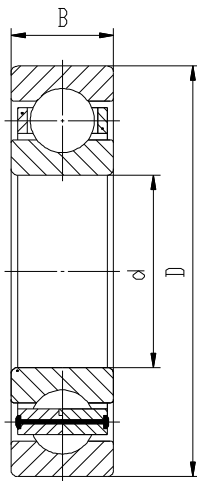


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |      |       |     |     | 基本额定载荷<br>Basic load rating |       | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|------|-------|-----|-----|-----------------------------|-------|--------------|----------|
|                             | d                          | D    | B     | T   | C   | Cr                          | Cor   |              |          |
|                             | mm                         |      |       |     |     | kN                          |       | kg           |          |
| FL-370692/HC                | 460                        | 655  | 212   | 184 | 63  | 2920                        | 7470  | 209          | 1.5MW    |
| FL-3706/530                 | 530                        | 730  | 250   | 250 | 104 | 4600                        | 13400 | 324          | 1.5MW    |
| FL-3706/560                 | 560                        | 750  | 225   | 225 | 200 | 3580                        | 9660  | 254          | 1.5MW    |
| FL-3519/710X2               | 710                        | 950  | 112   | 248 | 180 | 5000                        | 14400 | 471          | 1.5MW    |
| FL-3519/800X2               | 800                        | 1060 | 130   | 285 | 216 | 6670                        | 19600 | 664          | 1.5MW    |
| FL-3506/1440                | 1440                       | 1920 | 143.5 | 360 | 210 | 8430                        | 30360 | 2475         | 2.0MW    |
| FL-3506/1810                | 1810                       | 2530 | 355   | 355 | 202 | 8260                        | 35500 | 4804         | 3.0MW    |
| FL-3506/2000                | 2000                       | 2500 | 320   | 320 | 180 | 8020                        | 34600 | 3130         | 3.0MW    |
| FL-3506/2620                | 2620                       | 3200 | 485   | 485 | 250 | 16460                       | 65880 | 6720         | 6.0MW    |

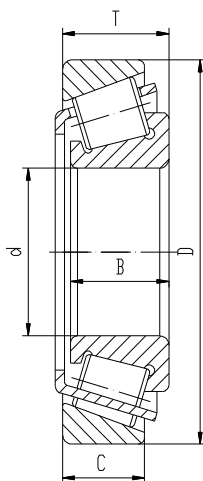
主轴轴承 ROTOR BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |      |     |     |      | 安装尺寸<br>Mounting Dimension |      | 安装尺寸<br>Mounting Dimension |    |    |    | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|------|-----|-----|------|----------------------------|------|----------------------------|----|----|----|--------------|----------|
|                             | d                          | D    | H   | Hi  | Dpw  | Pi                         | Pe   | ni                         | fi | ne | fe |              |          |
|                             | mm                         |      |     |     |      | mm                         |      | mm                         |    |    |    | kg           |          |
| FL-HYB1590FT                | 1220                       | 1870 | 352 | 340 | 1590 | 1360                       | 1770 | 60                         | 30 | 60 | 30 | 3760         | 2.0MW    |

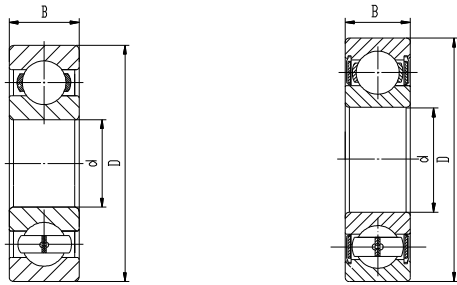


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |     | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|-----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B   | Cr                          | Cor  |              |          |
|                             | mm                         |     |     | kN                          |      | kg           |          |
| FL-60/600MA                 | 600                        | 870 | 118 | 680                         | 1440 | 245          | 100KW    |

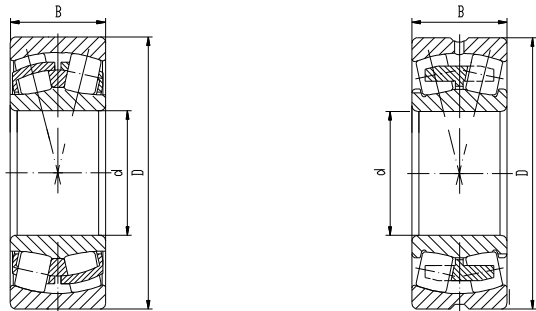


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |      |     |     |     | 基本额定载荷<br>Basic load rating |       | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|------|-----|-----|-----|-----------------------------|-------|--------------|----------|
|                             | d                          | D    | B   | T   | C   | Cr                          | Cor   |              |          |
|                             | mm                         |      |     |     |     | kN                          |       | kg           |          |
| FL-306/1270                 | 1270                       | 1630 | 200 | 200 | 150 | 7200                        | 21900 | 998          | 3.0MW    |
| FL-306/1550                 | 1550                       | 1920 | 200 | 200 | 150 | 7720                        | 24760 | 1215         | 3.0MW    |

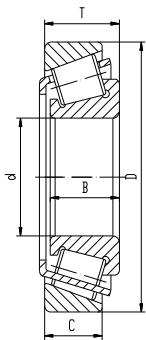
驱动减速机轴承 ACTUATOR BEARING



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B  | Cr                          | Cor  |              |          |
|                             | mm                         |     |    | kN                          |      | kg           |          |
| FL-6305                     | 25                         | 62  | 17 | 22.4                        | 11.5 | 0.214        | 1.5MW    |
| FL-6210                     | 50                         | 90  | 20 | 33                          | 21.8 | 0.474        | 1.5MW    |
| FL-6012-2RS                 | 60                         | 95  | 18 | 25.2                        | 20.1 | 0.446        | 1.5MW    |
| FL-6012                     | 60                         | 95  | 18 | 25.2                        | 20.1 | 0.416        | 1.5MW    |
| FL-6212-2RS                 | 60                         | 110 | 22 | 47.8                        | 33   | 0.8          | 1.5MW    |
| FL-6215-2RS                 | 75                         | 130 | 25 | 61                          | 46   | 1.22         | 1.5MW    |
| FL-6015                     | 75                         | 115 | 20 | 38                          | 31   | 0.634        | 1.5MW    |
| FL-6010                     | 50                         | 80  | 16 | 20.8                        | 15.4 | 0.255        | 2.0MW    |
| FL-6012/C3                  | 60                         | 95  | 18 | 25.2                        | 20.1 | 0.416        | 2.0MW    |
| FL-6213                     | 65                         | 120 | 23 | 57.2                        | 40.3 | 1.000        | 2.0MW    |
| FL-6214                     | 70                         | 125 | 24 | 56                          | 41   | 1.12         | 2.0MW    |
| FL-6016                     | 80                         | 125 | 22 | 42.6                        | 35.5 | 0.845        | 3.0MW    |

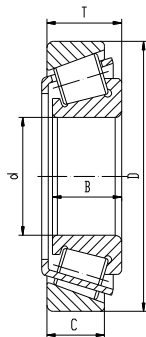


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B  | Cr                          | Cor  |              |          |
|                             | mm                         |     |    | kN                          |      | kg           |          |
| FL-21315CA                  | 75                         | 160 | 37 | 236                         | 278  | 3.89         | 1.5MW    |
| FL-22316CA                  | 80                         | 170 | 58 | 399                         | 500  | 6.54         | 1.5MW    |
| FL-24126C/W33               | 130                        | 210 | 80 | 580                         | 980  | 10.5         | 1.5MW    |
| FL-23030CA/W33              | 150                        | 225 | 56 | 460                         | 795  | 7.95         | 1.5MW    |
| FL-22232CA/W33              | 160                        | 290 | 80 | 860                         | 1270 | 23.9         | 1.5MW    |
| FL-23034CA/W33              | 170                        | 260 | 67 | 700                         | 1140 | 13.9         | 1.5MW    |
| FL-23032CA/W33              | 160                        | 240 | 60 | 585                         | 880  | 9.9          | 2.0MW    |
| FL-22324CA/W33              | 120                        | 260 | 86 | 850                         | 1130 | 23.2         | 5.0MW    |

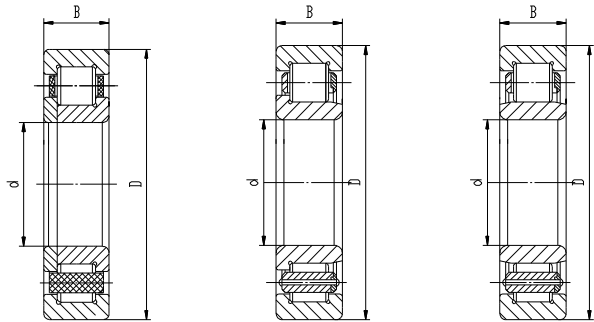


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    |       |      | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-------|------|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B  | T     | C    | Cr                          | Cor  |              |          |
|                             | mm                         |     |    |       |      | kN                          |      | kg           |          |
| FL-32910                    | 50                         | 72  | 15 | 15    | 12   | 38                          | 62   | 0.194        | 1.5MW    |
| FL-32912                    | 60                         | 85  | 17 | 17    | 14   | 40                          | 65   | 0.284        | 1.5MW    |
| FL-32012                    | 60                         | 95  | 23 | 23    | 17.5 | 79                          | 118  | 0.597        | 1.5MW    |
| FL-32213                    | 65                         | 120 | 31 | 32.75 | 27   | 165                         | 215  | 1.58         | 1.5MW    |
| FL-30216                    | 80                         | 140 | 26 | 28.25 | 22   | 163                         | 205  | 1.56         | 1.5MW    |
| FL-32217                    | 85                         | 150 | 36 | 38.5  | 30   | 230                         | 315  | 2.7          | 1.5MW    |
| FL-30219                    | 95                         | 170 | 32 | 34.5  | 27   | 235                         | 300  | 3.27         | 1.5MW    |
| FL-33220                    | 100                        | 180 | 63 | 63    | 48   | 431                         | 655  | 6.58         | 1.5MW    |
| FL-T2EE100                  | 100                        | 165 | 46 | 47    | 39   | 310                         | 480  | 3.8          | 1.5MW    |
| FL-32021                    | 105                        | 160 | 35 | 35    | 26   | 200                         | 324  | 2.38         | 1.5MW    |
| FL-32221                    | 105                        | 190 | 50 | 53    | 43   | 395                         | 572  | 6.26         | 1.5MW    |
| FL-33221                    | 105                        | 190 | 68 | 68    | 52   | 495                         | 764  | 8.16         | 1.5MW    |
| FL-33122                    | 110                        | 180 | 56 | 56    | 43   | 350                         | 610  | 5.5          | 1.5MW    |
| FL-30222                    | 110                        | 200 | 38 | 41    | 32   | 325                         | 435  | 5.16         | 1.5MW    |
| FL-30322                    | 110                        | 240 | 50 | 54.5  | 42   | 485                         | 597  | 11.1         | 1.5MW    |
| FL-32024                    | 120                        | 180 | 38 | 38    | 29   | 237                         | 395  | 3.27         | 1.5MW    |
| FL-32026                    | 130                        | 200 | 45 | 45    | 34   | 340                         | 580  | 5.06         | 1.5MW    |
| FL-32028                    | 140                        | 210 | 45 | 45    | 34   | 330                         | 580  | 5.41         | 1.5MW    |
| FL-32228                    | 140                        | 250 | 68 | 71.75 | 58   | 670                         | 1035 | 14.7         | 1.5MW    |
| FL-33030                    | 150                        | 225 | 59 | 59    | 46   | 450                         | 840  | 8.06         | 1.5MW    |
| FL-32232                    | 160                        | 290 | 80 | 84    | 67   | 910                         | 1450 | 23.7         | 1.5MW    |
| FL-32232/YA8                | 160                        | 290 | 80 | 84    | 67   | 880                         | 1400 | 23.5         | 1.5MW    |
| FL-32240                    | 200                        | 360 | 98 | 104   | 82   | 1370                        | 2170 | 42.6         | 1.5MW    |
| FL-33117                    | 85                         | 140 | 41 | 41    | 32   | 214                         | 354  | 2.43         | 2.0MW    |
| FL-30217                    | 85                         | 150 | 28 | 30.5  | 24   | 184                         | 234  | 2.05         | 2.0MW    |
| FL-30218                    | 90                         | 160 | 30 | 32.5  | 26   | 222                         | 291  | 2.73         | 2.0MW    |
| FL-32219                    | 95                         | 170 | 43 | 45.5  | 37   | 298                         | 415  | 4.34         | 2.0MW    |
| FL-30319                    | 95                         | 200 | 45 | 49.5  | 38   | 380                         | 468  | 6.91         | 2.0MW    |
| FL-32020                    | 100                        | 150 | 32 | 32    | 24   | 172                         | 280  | 1.87         | 2.0MW    |
| FL-32220                    | 100                        | 180 | 46 | 49    | 39   | 370                         | 540  | 5.31         | 2.0MW    |
| FL-30221                    | 105                        | 190 | 36 | 39    | 30   | 295                         | 390  | 4.38         | 2.0MW    |
| FL-33022                    | 110                        | 170 | 47 | 47    | 37   | 275                         | 465  | 3.75         | 2.0MW    |
| FL-33124                    | 120                        | 200 | 62 | 62    | 48   | 440                         | 770  | 7.74         | 2.0MW    |
| FL-32030                    | 150                        | 225 | 48 | 48    | 36   | 365                         | 635  | 6.4          | 2.0MW    |
| FL-32230                    | 150                        | 270 | 73 | 77    | 60   | 750                         | 1230 | 18.4         | 2.0MW    |
| FL-32032                    | 160                        | 240 | 51 | 51    | 38   | 420                         | 760  | 7.7          | 2.0MW    |
| FL-32034                    | 170                        | 260 | 57 | 57    | 43   | 500                         | 870  | 10.6         | 2.0MW    |

驱动减速机轴承 ACTUATOR BEARING

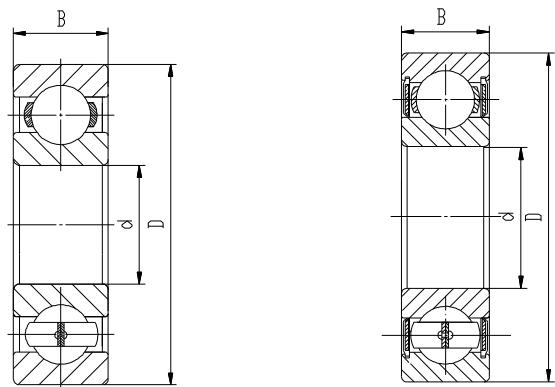


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |     |       |     | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|-----|-------|-----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B   | T     | C   | Cr                          | Cor  |              |          |
|                             | mm                         |     |     |       |     | kN                          |      | kg           |          |
| FL-32038                    | 190                        | 290 | 64  | 64    | 48  | 628                         | 1121 | 14.5         | 2.0MW    |
| FL-32222                    | 110                        | 200 | 53  | 56    | 46  | 445                         | 655  | 7.4          | 3.0MW    |
| FL-32224                    | 120                        | 215 | 58  | 61.5  | 50  | 495                         | 750  | 9.25         | 3.0MW    |
| FL-30228                    | 140                        | 250 | 42  | 45.75 | 36  | 428                         | 578  | 8.8          | 3.0MW    |
| FL-32234                    | 170                        | 310 | 86  | 91    | 71  | 1005                        | 1615 | 30           | 3.0MW    |
| FL-32236                    | 180                        | 320 | 86  | 91    | 71  | 1040                        | 1700 | 30           | 3.0MW    |
| FL-32238                    | 190                        | 340 | 92  | 97    | 75  | 1170                        | 1890 | 36.1         | 3.0MW    |
| FL-32248                    | 240                        | 440 | 120 | 127   | 100 | 1900                        | 3200 | 81.4         | 3.0MW    |
| FL-32226                    | 130                        | 230 | 64  | 67.75 | 54  | 572                         | 880  | 11.5         | 6.0MW    |
| FL-32036                    | 180                        | 280 | 64  | 64    | 48  | 605                         | 1060 | 13.9         | 6.0MW    |
| FL-32244                    | 220                        | 400 | 108 | 114   | 90  | 1600                        | 2670 | 62.7         | 6.0MW    |

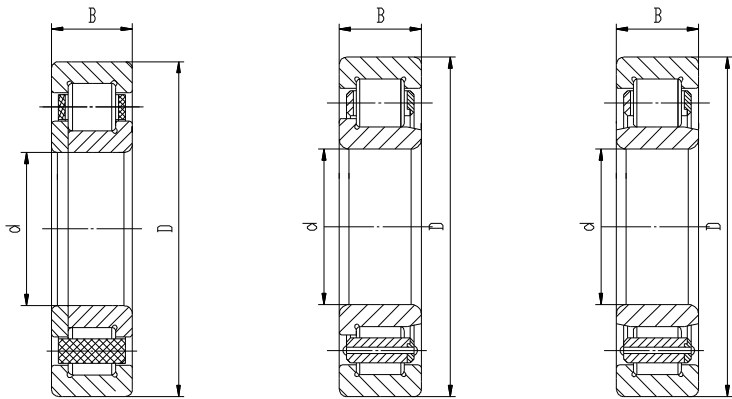


| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    | 基本额定载荷<br>Basic load rating |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-----------------------------|------|--------------|----------|
|                             | d                          | D   | B  | Cr                          | Cor  |              |          |
|                             | mm                         |     |    | kN                          |      | kg           |          |
| FL-NUP203ETN1               | 17                         | 40  | 12 | 17.4                        | 14.4 | 0.0706       | 1.5MW    |
| FL-NUP205ETN1               | 25                         | 52  | 15 | 32                          | 31   | 0.14         | 1.5MW    |
| FL-NU1032M                  | 160                        | 240 | 38 | 224                         | 354  | 6.32         | 1.5MW    |
| FL-NUP204ETN1               | 20                         | 47  | 14 | 28.2                        | 25.5 | 0.113        | 2.0MW    |
| FL-NUP2206ETN1              | 30                         | 62  | 20 | 52                          | 54   | 0.263        | 2.0MW    |
| FL-NJ2228M                  | 140                        | 250 | 68 | 480                         | 700  | 14.8         | 3.0MW    |
| FL-NU2322EM                 | 110                        | 240 | 80 | 684                         | 897  | 18.6         | 5.0MW    |
| FL-NJ2240EMA                | 200                        | 360 | 98 | 1240                        | 1900 | 46.7         | 5.0MW    |

发电机轴承 BEARINGS FOR GENERATORS



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    | 基本额定载荷<br>Basic load rating |     | 极限转速<br>Speed limit |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-----------------------------|-----|---------------------|------|--------------|----------|
|                             | d                          | D   | B  | Cr                          | Cor | 脂润滑                 | 油润滑  |              |          |
|                             | mm                         |     |    | kN                          |     | r/min               |      | kg           |          |
| FL-6326/HQ1                 | 130                        | 280 | 58 | 240                         | 226 | 2600                | 3200 | 13.5         | 1.5MW    |
| FL-6328/HQ1                 | 140                        | 300 | 62 | 329                         | 246 | 2400                | 3000 | 16.7         | 1.5MW    |
| FL-6330/HQ1                 | 150                        | 320 | 65 | 360                         | 280 | 2200                | 2800 | 18.3         | 1.5MW    |
| FL-6330M/C4                 | 150                        | 320 | 65 | 277                         | 280 | 2200                | 2800 | 24.6         | 2.0MW    |
| FL-6330M/C3H                | 150                        | 320 | 65 | 277                         | 280 | 2200                | 2800 | 24.6         | 2.0MW    |



| 轴承代号<br>Bearing Designation | 外形尺寸<br>Boundary Dimension |     |    | 基本额定载荷<br>Basic load rating |     | 极限转速<br>Speed limit |      | 重量<br>Weight | 机型<br>WT |
|-----------------------------|----------------------------|-----|----|-----------------------------|-----|---------------------|------|--------------|----------|
|                             | d                          | D   | B  | Cr                          | Cor | 脂润滑                 | 油润滑  |              |          |
|                             | mm                         |     |    | kN                          |     | r/min               |      | kg           |          |
| FL-IS-N317EM                | 85                         | 180 | 41 | 271                         | 208 | 3000                | 3600 | 5.2          | 1.5MW    |
| FL-IS-NU230M/C3             | 150                        | 270 | 45 | 405                         | 550 | 1900                | 2400 | 11.8         | 1.5MW    |
| FL-IS-NU2230EM              | 150                        | 270 | 73 | 590                         | 890 | 1900                | 2400 | 18.5         | 1.5MW    |
| FL-IS-N234EM                | 170                        | 310 | 52 | 500                         | 780 | 1800                | 2200 | 18.2         | 1.5MW    |