



哈尔滨轴承制造有限公司
Harbin Bearing Manufacturing Co., Ltd.
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哈尔滨轴承制造有限公司
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哈尔滨轴承制造有限公司是由哈尔滨轴承集团公司改制成立的，是中国轴承行业三大生产基地之一，公司始建于1958年，占地面积约80万平方米，员工10000余人，主要生产设备4000余台，生产从传统意义上的普通球轴承到各种精密轴承、特种用途轴承和特种性能轴承达2000多个规格，年生产量为3000万套，年销售收入10亿元以上。

主要产品有汽车、火车、农机、机床主轴、电机主轴、工程机械、矿山机械、石油化工、航空航天、国防军工等行业的企业配套需求。

公司主要标准 GB9091-2006, ISO 6184-2006, ISO 6189-1:2014/ISO 2004标准均获得国际产品认证。通过轴承行业权威机构的质量管理体系“HRB”轴承品牌荣获“中国名牌”、“最具成长性品牌”和“出口免验企业”称号等。

轴承行业是国家高技术产业，国家设立了多项国家或省部级科技项目，特别是“863计划”、“重大专项”、“神舟七号”、“神舟八号”、“神舟九号”以及嫦娥探月工程等重大工程，“国之重器”、“国之利器”工程等项目，并发挥制造业的领军企业优势承担国家重大科技专项工程，承担开发研制80%以上国家重大工程轴承，承担了400多个、实现了国产化、在高速重载、高转速、高扭矩等多个领域突破关键技术瓶颈突破，先后有60多款020多种产品完成配套，为市场提供大批量优质产品，为国内国际工程建设和全球制造业提供了强大支持。

轴承行业是“材料、装备、能源”三大支柱产业，也是“中国制造2025”战略性新兴产业的重要组成部分，更是“成为国际一流装备制造业”的企业愿景，全力开拓轴承制造新境界。

A Brief Introduction to Harbin Bearing Manufacturing Co., Ltd.

Harbin Bearing Manufacturing Co., Ltd. (hereinafter referred to as HRB) developed from Harbin Bearing Group Corporation founded in 1958.

It is a leading top three largest bearing production bases in China bearing industry. It has over an area of about five hundred sixty thousand square meter, has three thousand employees, ten thousand six hundred sets of major production equipment, the annual production capability of eighty million pieces of bearings, and one billion year of accumulative sales.

HRB handles over more than 2000 specifications of bearings, from inner diameter of 1 millimeter to outer diameter of 2000 millimeters, with different speed performance, and for various purposes.

HRB supplies the products for various industries, especially machine tool, automobile, agricultural machinery, construction and oil-drilling, motor and electrical equipment, engineering machinery, mining machinery, petroleum and chemical engineering, aviation and spaceflight, and other areas related to national industries.

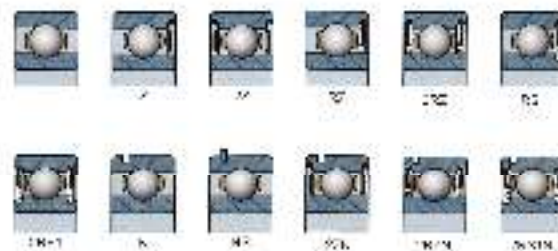
HRB has established and improved a scientific and normative quality control system with the certification of ISO 9001-2008, TS 16949-2009, AAS 100, and ISO 14001-2004. HRB has its own chain for the honors of "Brand China", "Most Competitive Brand", and "Five-year Top 10 vendor" from Exame inspection.

HRB cooperates a national level R&D center, has completed many of important scientific research projects at state level. More importantly, HRB has provided the bearings to the national projects including the "Shenzhou 7", "Shenzhou 8" manned spacecraft, "Fengyun rocket of Changfeng II" and "Changfeng and Guang II" satellites, etc. In the collaboration from the Ministry of Railways, HRB has developed and produced speed up railway passenger cars and trolleys. HRB has supplied and produced for the HRB's railway passenger 500000 sets of spring bearings, thus having filled a major gap in the production in China of this kind of bearings. HRB has made breakthroughs in many bearing performance fields, such as ultra-high speed and low-temperature, low-temperature, and high speed and gear modules. HRB has gained awards for the technical progress and quality of the national level scientific and technological projects, has been honored as the national quality award. HRB has made significant contributions to the scientific and technical innovation in bearing industry in China.

HRB will continue to take into full consideration innovative programs, and the rapid HRB bearing industrialization efforts in Application, and Science and Technology, leading the world in bearing industry and Efficient. And HRB is going to be a world-class supplier of high-end bearings, and to further expand bearing trade.

HRB 深沟球轴承

DEEP GROOVE BALL BEARINGS



深沟球轴承为最常见轴承，其可承受一定的轴向位移，该类轴承摩擦系数小，运转精度高，尺寸范围与形式变化多样，适用于各种仪表、机械、电机、汽车、自行车以及一般机械等工业中应用最为广泛的一类轴承。

HRB 深沟球轴承

DEEP GROOVE BALL BEARINGS

HRB 深沟球轴承		ISO 标准		
		92	922	2768
材料	SKF 52100	□	□	△
密封	SKF 2Z	□	□	△
润滑剂	SKF 2	△	□	□
尺寸	Standard	□	□	□
精度	SKF 00	□	□	□

○ B. G. Doublet □ SKF Good △ SKF Fair □ SKF Poor

系列	尺寸	ISO 标准
1000	10-170	2-222-12-272-15-281-18-290
0000	10-100	2-222-12-272-15-281-18-290-19-300
1001	10-170	2-222-12-272-15-281-18-290-19-300
0001	10-100	2-222-12-272-15-281-18-290-19-300-20-310
0002	10-140	2-222-12-272-15-281-18-290-19-300-20-310-21-320
0003	10-100	2-222-12-272-15-281-18-290-19-300-20-310-21-320-22-330
1004	10-170	2-222-12-272-15-281-18-290-19-300-20-310-21-320-22-330-23-340
0005	1-12	2-60-280-FC000



HRB 调心球轴承

SELF-ALIGNING BALL BEARINGS



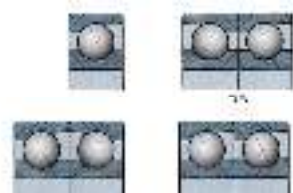
系列	尺寸	ISO 标准		ISO 标准	
		222	223	224	225
200	1000K	10-100	10-100	224	44000
300	1300K	10-100	10-100	225	44000
2100	2200K	10-100	10-100	224	44000
2200	2300K	10-100	10-100	225	44000

调心球轴承具有自动调心功能，能补偿轴和轴承座的安装误差，并能补偿轴的弯曲和轴的挠曲。该系列轴承具有自动调心功能，可以补偿不同制造精度造成的误差，使其在运行过程中始终保持稳定的运行。

With new structure of cylindrical or tapered bore and relative race of steel alloy, self-aligning balls, the bearings are characterized of their ability to form a bearing clearance allowing for misalignment when in use. This allows between inner ring and outer ring, so as to compensate concentricity and deflection errors.

HRB 角接触球轴承

ANGULAR CONTACT BALL BEARINGS



15°
25°
30°
40°
HRB 角接触球轴承的接触角

角接触球轴承可以承受轴向载荷和径向载荷。单列角接触球轴承只能承受一个方向的轴向载荷。因此，它们常成对使用安装。成对使用时，应预先调整其预紧力。角接触球轴承的预紧力为保持球与球道接触，并防止球与球道发生相对滑动。预紧力的大小应根据不同的使用条件而定。

单列角接触球轴承 SINGLE ROW ANGULAR CONTACT BALL BEARING			
系列 Series	接触角 Contact angle		
	15° 15°	25° 25°	30° 30°
HRB 6000	15-15	15-15	15-15
HRB 7000	15-15	15-15	15-15
应用范围 Application			
HRB 6000	15-15	15-15	15-15
HRB 7000	15-15	15-15	15-15
HRB 8000	15-15	15-15	15-15

Angular contact ball bearings are able to support radial load and axial load. As single row angular contact ball bearings can only support axial load in single direction, they are often applied in pairs. When used in pairs, the preload should be adjusted in advance. The preload of angular contact ball bearings is to keep the balls in contact with the raceways and prevent the balls from sliding relative to the raceways. The size of the preload should be determined according to different use conditions.

HRB 角接触球轴承

ANGULAR CONTACT BALL BEARINGS



双列角接触球轴承由两个单列角接触球轴承组成。它们可以承受两个方向的轴向载荷，同时承受径向载荷。

Double row angular contact ball bearings are a form of two-point contact ball bearings, which support axial load in both directions as well as radial load.

当两列球接触角不同时，可以承受两个方向的轴向载荷。

With two line-ings, this type bearing can take axial load in both directions.

双列角接触球轴承 DOUBLE ROW ANGULAR CONTACT BALL BEARING		
系列 Series	接触角 Contact angle	应用范围 Application
HRB 2000	15-15	15-15
HRB 3000	15-15	15-15
HRB 4000	15-15	15-15
HRB 5000	15-15	15-15
四点接触球轴承 FOUR POINT CONTACT BALL BEARING		
系列 Series	应用范围 Application	
HRB 6000	15-15	
HRB 7000	15-15	
HRB 8000	15-15	
HRB 9000	15-15	

HRB 圆柱滚子轴承

CYLINDRICAL ROLLER BEARINGS



圆柱滚子轴承是一种滑动轴承，其内、外圈均采用了滚动接触，滚子尺寸小，承载能力与寿命较大，适用于机床、汽车、电动机、纺织机械。双列圆柱滚子轴承主要用于机床。

This type of bearings is separate with rollers. The rollers can reduce the contact area, and working with less deformation. In fact, these bearings have very good capacity of radial load, suitable for electric motors, automobile, machine tool, etc. Double row cylindrical roller bearings are used on the spindles of machine tools.

系列名称 Series	内径范围 Bore diameter	外径范围 Outer diameter	主要应用 Main uses
220E	10 - 120	N, NF, NJ, NU, NUP	
307E	12 - 100	N, NF, NU, NU, NUP	
402E	200 - 300	N, NF, NU, NU, NUP	
NU	12 - 100	N, NF, NU, NU, NUP	
220EE	10 - 100	N, NF, NU, NU, NUP	
220EE	10 - 120	N, NF, NU, NU, NUP	
NK070	50 - 120	N, NF, NU, NU, NUP	
NK1400	60 - 100	N, NF, NU, NU, NUP	

HRB 圆柱滚子轴承

CYLINDRICAL ROLLER BEARINGS



系列名称 Series	内径范围 Bore diameter
FC	120 - 600
FCD	200 - 800
FCD*	300 - 1000



FC



FCD



FCD*



N

NF

NU

NJ

NUP



NN

NNJ

NN-E

NN-ENR

NK-KW95

HRB 调心滚子轴承

SPHERICAL ROLLER BEARINGS



调心滚子轴承以球面滚子为滚动体，具有自动调心性。滚动体与内、外圈滚道之间的接触为线接触，能承载大的径向载荷。适用于矿山、冶金、纺织、建筑及大型机械传动。



K CN38 16437

With the same center as that of the bearing, the spherically-ground roller ringways can make self-alignment. Their lining elements (rollers) come into contact with the ringways of inner ring and outer ring. The bearings can take greatly radial load, suitable for heavy machinery used in mining, metallurgical, paper-making and construction.

系列 Series	球面滚子 Spherical Roller	球面滚子 Spherical Roller
22204	10~1400	K, 4V2S, 16437
22206	10~1200	K, 4V2S, 16437
22208	10~1100	K, 4V2S, 16437
22210	10~1400	K, 4V2S, 16437
22212	10~1400	K, 4V2S, 16437
22214	10~1400	K, 4V2S, 16437
22216	10~1400	K, 4V2S, 16437
22218	10~1400	K, 4V2S, 16437
22220	10~1400	K, 4V2S, 16437

HRB 圆锥滚子轴承

TAPERED ROLLER BEARINGS



30220 30202R



150720

圆锥滚子轴承由两个球面滚子组成，能同时承受径向力和轴向力。滚动体与内、外圈滚道之间的接触为线接触，能承载大的径向载荷。适用于矿山、冶金、纺织、建筑及大型机械传动。

Tapered roller bearings are generally used to support combined load mainly consisting of radial load. Their ends are separable for ease assembling. During mount and use, axial clearance and axial clearance can be adjusted and preloaded mounting can be made.

系列 Series	球面滚子 Spherical Roller	球面滚子 Spherical Roller
30204	10~1100	
30206	10~1100	
30208	10~1100	
30210	10~1100	
30212	10~1100	
30214	10~1100	
30216	10~1100	
30218	10~1100	
30220	10~1100	
30222	10~1100	
30224	10~1100	
30226	10~1100	
30228	10~1100	
30230	10~1100	
30232	10~1100	
30234	10~1100	
30236	10~1100	
30238	10~1100	
30240	10~1100	
30242	10~1100	
30244	10~1100	
30246	10~1100	
30248	10~1100	
30250	10~1100	

HRB 圆锥滚子轴承

TAPERED ROLLER BEARINGS



HRB 圆锥滚子轴承	重量 (kg)
352020	160-1400
352202	160-1200
352820	180-1200
352020	150-1200
352620	160-1000
351820	100-1400
351020	100-1300

HRB 圆锥滚子轴承	重量 (kg)
311020	200-1000
312020	200-1400
321100	150-1400
322020	150-1200
341020	300-1000
311020	200-1200



HRB 推力球轴承

THRUST BALL BEARINGS

推力球轴承，其滚子为球状，且只能承受沿轴承一个方向的轴向载荷。因其能承受两个方向的轴向载荷而得名。推力球轴承在工作中必须加以轴向预紧。它的主要应用用于汽车离合器、变速器、泵、电动机、滚珠丝杠等。轴承的滚子材料采用 GCr15 钢，其保持架材料采用 45 号钢。



This type of bearing is separable, so only one side will be the single direction bearing of them can only carry axial load in one direction. The double direction bearings can carry axial load in both directions. Besides, they may have to be preloaded. The thrust ball bearings are used in the centers automobile, pump, motor, ball screw, etc. The balls are made of GCr15 steel, and the cage is made of 45 steel. The single direction bearings are used to support ball screws.



HRB 推力球轴承

THRUST BALL BEARINGS

系列 Series	尺寸范围 (mm / inch)
51100	10 ~ 800
51200	10 ~ 1000
51300	10 ~ 1000
51407	10 ~ 1000
52002	10 ~ 1000
52003	10 ~ 1000
F-2100	10 ~ 140
2144026N1	25 ~ 250
2147026N1	27 ~ 250
2148026N1	25 ~ 250
710000FN	10 ~ 100
710000FN	10 ~ 100



≥100mm



≥60mm



≥40mm



HRB 推力调心滚子轴承

SPHERICAL THRUST ROLLER BEARINGS

推力调心滚子轴承，由于采用了
 调心球滚子，具有调心性能，轴与轴套配合时
 公差，在承受轴向载荷的同时还可承受一定的
 径向载荷。适用于：冶金机械传动、起重机械
 半金属磨床与水力发电机、立式电动机、汽
 轮机转子轴、机床、折纸机等。



With spherical rollers and spherical raceway of the
 bearing, when these bearings are self-aligning. These
 bearings, when the extremely big axial load carrying
 capacity and rigidity, they can also carry radial
 loads. It is suitable for commonly used in working
 settings. These bearings can be applied in hydroelectric
 generators, vertical motors, propeller shafts of
 vessels, lower cranks, and other equipment.



系列 Series	尺寸范围 (mm / inch)
29000	100 ~ 1200
20900	150 ~ 1000
30407	140 ~ 1000
0080000	100 ~ 1200
4075000	130 ~ 1100
4075000	140 ~ 1000



HRB 组合轴承

COMBINATION BEARINGS



组合轴承可以承受双向的载荷和弯矩，具有较宽的转速和刚度。ZARH、ZARF型轴承为双列深沟球轴承型组合轴承，适用于低速重载中心负荷打头锤。ZAR型轴承为单列深沟球轴承，适用于轻载低速中心负荷打头锤。YRT系列轴承为双列深沟球轴承，适用于轻载低速重载打头锤。

Such bearings can carry double direction axial load and radial load, and have moderately high rigidity and stiffness. ZARH and ZARF models are a combination of needle and double-direction thrust roller bearings, which can be applied to support the load of the digital control machine center and the housing washer of ZARF model is used for bearings of the machine, and they can be applied to support screw of the digital control machine, while YRT model is a combination of two needles roller and double direction thrust needle roller bearings, which can be used to protect bearing of digital control milling machine.



HRB 汽车轮毂轴承

HUB BEARINGS



公司与美国通用汽车公司合资组建哈尔滨汽车轴承有限公司，生产1个基本种的汽车轮毂轴承。公司采用先进的制造技术和设备，由美国通用汽车公司引进先进的生产设备，生产的产品符合国际汽车轴承标准，每年生产量达1000万套/年，及自产检测设备以及标准最高的制造及检测设备。同时使用CAD/CAM技术，进行输入及管理；对零件及产品的检测，每道工序工程均进行，生产的产品质量可靠。

Harbin Bearing Manufacturing Co., Ltd. (HRBAC) was set up by an investment set up Harbin Automobile Bearing Co., Ltd., which manufactures 5 basic types of hub bearings according to the circumstances and assemble 100 models and 7 million pieces of D1, D2 and D3 hub bearings each year. It has invested with the most advanced and efficient equipment in production and inspection; and SCADA (Supervisory Control And Data Acquisition) and which purely controls and inspects every process.



