

BEARING MANUFACTURER

INR Bearing



上海意纳实业有限公司
SHANGHAI INR INDUSTRIAL CO.,LTD

氧化锆全陶瓷系列 / All Ceramic Bearings Made With ZrO₂

氧化锆全陶瓷轴承

全陶瓷轴承具抗磁电绝缘、耐磨耐腐蚀、无油自润滑、耐高温耐寒等特点，可用于极度恶劣环境及特殊工况。套圈及滚动体采用氧化锆 (ZrO₂) 陶瓷材料，保持器使用聚四氟乙烯 (PTFE) 作为标准配置，一般也可使用玻璃纤维增强的尼龙66 (GRPA 66-25)，特种工程塑料 (PEEK, PI)，不锈钢 (AISI SUS316、SUS304)，黄铜 (Cu) 等。

Full ceramic (All-ceramic) bearing of ZrO₂ materia

Full ceramic bearing have excellence performance as special electrical and magnetism resistance, wear and corrosion resistance, lubrication and maintenance free when working, especially high and low-temperature application, etc. could be used in awful environment and specially condition. The rings and balls made by full ceramic material: ZrO₂, as a standard constructure, the cage mand by PTFE, generally we also could make the cage with GRPA66-25, PEEK, PI, AISI SUS304, SUS316, Cu, etc.

深沟球轴承 / Deep groove ball bearings



外球面轴承 / Insert bearings



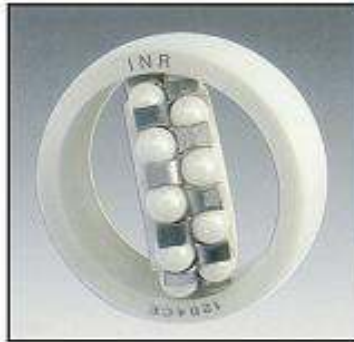
氧化锆全陶瓷系列/All Ceramic Bearings Made With ZrO₂

角接触球轴承/双列角接触球轴承

Angular contact ball bearings/Double row angular contact ball bearings



调心球轴承/Self-aligning ball bearings



推力球轴承/Thrust ball bearings



氮化硅全陶瓷轴承系列/All-Ceramic Bearings Made With Si3N4

氮化硅全陶瓷轴承

氮化硅全陶瓷轴承套圈及滚动体采用氮化硅 (Si3N4) 陶瓷材料, 保持器使用聚四氟乙烯 (PTFE) 作为标准配置, 一般也可使用 GRPA66-25、PEEK、PI, 以及酚醛夹布胶木管等。Si3N4全陶瓷轴承相比较ZrO2材料可适用于更高转速及负荷能力, 以及适用于更高的环境温度。同时可提供用于高速高精度高刚性主轴的精密陶瓷轴承, 最高制造精度达P4至UP级。

Full ceramic(All-ceramic) bearing of Si3N4 material

Full ceramic bearing made with Si3N4 have some better performance than ZrO2, the rings and balls made by full ceramic material: Si3N4, as a standard constructure, the cage made by PTFE, generally we also could make the cage with GFRPA66-25, PEEK, PI, Phonemic Textiles Tube, etc. Compares than the material of ZrO2, The Si3N4 ceramics bearings could endure heavier load and could be used in higher temperature environment. Also we could offer precision ceramic bearing which generally used in high-speed and high-rigidity spindle, the manufactured clearance could be P4 TO UP grade.



满装球全陶瓷轴承系列/Full ceramic(All-ceramic) bearing of full complement balls

满装球全陶瓷轴承

满装球型全陶瓷轴承一面带添球缺口, 因采用无保持架结构设计, 可以比标准结构的轴承装入更多的陶瓷球, 从而提高其径向负荷能力, 另外还可避免因保持架材料的限制, 可达到陶瓷保持架型全陶瓷轴承耐腐蚀及耐温效果。该系列轴承不适宜较高转速, 安装时应注意将缺口面装于不承受轴向负荷的一端。因该轴承内外圈具填球缺口, 故不适合有较大轴向负荷场合应用。

Full ceramic(All-ceramic) bearings of full complement balls

Full ceramic bearing of full complement balls has an add-ball gap on tis side. Because using no cage design, the bearing able to install more ceramic balls than the standard construction, so the heavier radial load ability increased more. In addition, to avoid the limited of the cage material, this bearing same as the full ceramic bearing of ceramic cage has corrosion resistance and high temperature application. This series of bearing is not for high speed choice, it should be to install on the unforced side. As there have in the inner and out rings the bearing couldn't be used in axial load application.



陶瓷保持架全陶瓷轴承系列 / Full ceramic(All-ceramic) bearing of ceramic cage

陶瓷保持架全陶瓷轴承

陶瓷制保持架具有耐磨损、高强度、耐腐蚀及自润滑的优点,采用陶瓷保持架制造的全陶瓷轴承可用于极强腐蚀,超高温及高真空等苛刻环境,常用保持架陶瓷材料为ZrO₂。

Full ceramic(All-ceramic) bearing of ceramic cage

Ceramic cage has excellence performance as wear and corrosion resistance, high strength, lubrication and maintenance free when working. Adopting the ceramic cage, Ceramic bearing can be used in the most inclemency environments as corrosive, low temperature, high vacuum. The normal used ceramic materials with ZrO₂.



混合陶瓷轴承系列 / Hybrid construction ceramic ball bearing

混合陶瓷球轴承

陶瓷球特别是氮化硅球具有低密度、高硬度、低摩擦系数、抗磁电绝缘、耐磨、自润滑及刚性好等特点,特别适合做高速、高精度及长寿命混合陶瓷球轴承的滚动体(内外圈为金属)。一般内外圈采用轴承钢(GCr15)或不锈钢(AISI440C, 316 304),陶瓷球可选用ZrO₂, Si₃N₄, 或SiC材料。

Hybrid construction ceramic ball bearing

Ceramic ball especially Si₃N₄ have the following performance as low density, high strength, low friction coefficient, electrical and magnetism resistance, wear resistance, well rigidity, lubrication and maintenance free when working, it's the best choice for rollers (inner ring and outer ring are made by metal) of the hybrid construction ceramic ball bearing which are used in high-speed, high accuracy and long life environments. Normally, GCr15 or AISI440C, 316 304 makes inner ring and outer ring; The ceramic ball can adopt ZrO₂, Si₃N₄ or SiC.



金属纳米陶瓷轴承 / Metal Nano-Ceramic bearings

金属纳米陶瓷轴承

金属纳米陶瓷轴承是用纳米陶瓷材料来对金属材料表面改性，渗透和紧密复合在金属表面，结合了陶瓷材料和钢材各自的特性，使轴承耐磨、防腐、耐离低温、抗冲击、降噪音、无油润滑、负载力功能提高几倍，在恶劣环境中使用较大降低使用成本。

Metal Nano-Ceramic bearings

Metal Nano-Ceramic bearings is the unique way to use the Nano-ceramic material to change the characteristics of the metal surface! And Nano-ceramic thoroughly penetrate the metal and tightly combined with the metal. It has the both characteristic of metal and ceramics. It has the excellent performance of the Anti-corrosion, heat barrier, Anti-shock load, Lower noise, self-lubrications, Low friction, Less wear. And reduced the cost in harsh environment. Our technic is widely applied to ball and roller bearings for excellent performance and more long life.



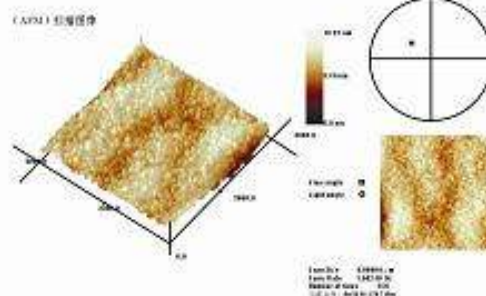
混合金属纳米陶瓷轴承 / Hybrid Metal Nano-Ceramic bearings

混合金属纳米陶瓷轴承

混合金属纳米陶瓷轴承是用陶瓷改性后的金属内、外轴承圈，全陶瓷球作为滚动体，更加增加了轴承的耐磨损、负载、自润滑、耐高温、绝缘性、降噪音、高转速等功能，适合特殊环境中使用。

Hybrid Metal Nano-Ceramic bearings

Hybrid Metal-Nano-Ceramic bearings is to use the Metal Nano-Ceramic inner and outer ring. And balls material can be: ZrO_2 , and Si_3N_4 . The race of the Nano-ceramic cause the very low friction with the ceramic balls, and can be for the applications of high speed and free lubrication applications.



复合自润滑轴承系列 / Complex-dry lubricant bearing

复合自润滑轴承

复合自润滑轴承是在金属表面覆盖多种润滑成分的复合材料,同时不影响轴承本身的精度,提高轴承的转速,降低运转噪音,减少摩擦,大幅度提升轴承使用寿命,特别适合纺织机械,印刷机械,烟草机械,医疗机械,食品机械等高环保要求行业或者油性润滑脂不适合的高温场合和军事,航天等领域。



COMPLEX DRY LUBRICANT BEARING

Complex dry lubricant bearing is to apply Multi-self lubricant complex material on the bearing surface. This application not only increase the RPM of the bearing, lower the noise during working, reduce the rotation friction but also highly extend the bearing life. It is widely used for textile machinery, print machinery, tobacco machinery, medical machinery and food machinery with high Environmental request. Or the application that can only be used by dry lubricant like vacuum, high temperature, military affairs and space flight fields etc.

绝缘轴承系列 / Insulated Bearings

绝缘轴承系列

绝缘轴承是减少或者阻断强电流通过轴承主体，防止轴承运转时强电流对轴承沟道的损伤，提高轴承在电流环境下的使用寿命。绝缘轴承一般可以根据用户要求设计或外圈绝缘或滚动体绝缘，或者按照轴承的型号尺寸来定。适用于大型电机，冶金冶炼，电厂发电，国防军事等特殊行业。



Insulated Bearings

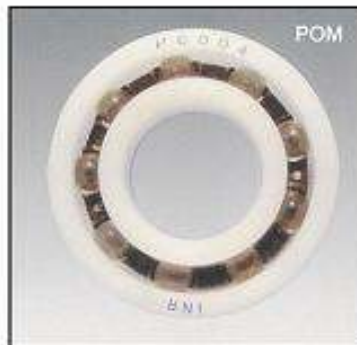
Insulated bearings can reduce or stop the electrical current through the body of bearing, prevent the strong electrical current to damage the bearing raceway during bearing working . In this way, can increase the lifetime of the bearings under current Environment. We can design Outer ring insulate or Rolling element insulate as per customer's request. Or as per the bearing type . It is widely used for alternating Motor and metallurgical ,Power station , National defense etc. special field.

塑料轴承系列/Plastic Bearings

1. POM/PA塑料轴承(精密塑料轴承) POM/PA Plastic Bearings (precision plastic Bearings)

POM和PA材料具备良好的机械强度及耐磨性, 适合制作比较精密的塑料轴承, 其良好的自润滑性能及低的摩擦系数, 在保持塑料轴承传统有时的基础上, 可应用于精密及较高转速运转。其中POM塑料轴承是所有塑料轴承中应用最为广泛的一种, 一般内外球材料采用POM或PA, 保持架采用玻璃纤维增强的尼龙66 (GHPA66-25)。滚珠为玻璃球, 不锈钢球或陶瓷球, 此种轴承碱性环境下表现良好但不适合在酸性腐蚀环境下运行。

Material POM and PA have excellent mechanical strength and wearing resistance, is suitable for manufacturing precision plastic bearings. With good self-lubrication performance and low friction coefficients. In addition and high speed application. Plastic bearing made with POM is the most extensive sort of all the plastic bearings. Generally the inner and outer rings made with POM or PA, Cage made with PA and the balls made with glass, stainless or ceramic. These bearings could be used in some alkali environment but not proper to some acid environment.



2. HDPE/PP/UPE (UHMW-PE) 塑料轴承(抗酸碱塑料轴承)

HDPE/PP/UPE Plastic bearings (Anti-Acid and Anti-Alkali bearings)

HDPE、PP、UPE材料已证明能用于相对较弱的酸碱交叉环境(30%CuCl₂溶液和30%NaOH溶液测试OK)故适用于大多数酸/碱/盐/溶剂/油/气体及海水腐蚀环境。具备一般塑料轴承之无油自润滑, 抗磁电绝缘等性能, 但机械强度较低, 容易变形, 故不适用与较大负荷及较高转速, 相比较而言, UPE材料具备更佳强度, 低摩擦特性及低温应用特性(最低可至-150°C), 一般内外圈材料采用HDPE、PP或UPE, 保持架材料采用HDPE、PP或UPE, 滚珠为玻璃球, 不锈钢球或陶瓷球。

HDPE,PP,UPE(UHMWPE)are approved can be used in faintish acid and alkali environment (30% CuCl₂ solution and 30% NaOH solution is tested ok).Such bearings can operate in liquid and contamination sensitive environments as acid/alkali/salt/impregnant/oil/gas/seawater.have general performance of lubrication and maintenance free, none magnetism,anti-rust and eroded of plastic bearings.But these bearings have not strong mechanical strength and easy to be out of shape, so couldn't used in heavy load and high speed application,among these 3 material,UPE moer excellent strength and low friction and could be used to lower temperatuer(lowest to -150°C).Generally the rings and cage made with HDP, PP or UPE, balls made with glass stainless or ceramic



塑料轴承系列/Plastic Bearings

3. PEEK/PI塑料轴承(耐高温塑料轴承) PEEK/PI Plastic Bearings (High temperature application plastic bearings)

PEEK和PI作为新兴的工程塑料材料，被证明是所有已知工程塑料中机械强度尺寸稳定性及耐高温性能最好的，其中PEEK长期使用温度达260°C，PI长期使用温度更是高达300°C，且其具有优良的耐腐蚀性能，在中等强度的酸碱腐蚀环境仍可以运转自如，故一般用于制作需要在比较严酷环境中精密运转的轴承，其缺点是因材料本身比较昂贵，故使用成本较高，一般内外圈材料选用PEEK或PI，保持架材料为PTFE，PEEK或PI，滚珠一般为ZrO2或Si3N4陶瓷球。

As newly developing engineering plastic material, PEEK and PI have been approved have the strongest mechanical strength and could endure the highest temperature among all the plastic material. PEEK could work at 260°C and PI at 300°C in long-term. Moreover they have excellent anti-corrosion performance could be used in strong acid and alkali environment. So generally they are used to manufacture bearings to realize precision running in rigor environment. As the material is expensive, the costs are high. Generally the rings made with PEEK or PI. Cage with PTFE, PEEK or PI and ball with ZrO2 or Si3N4.



4. PTFE/PVDF塑料轴承(耐腐蚀塑料轴承) Plastic Bearings Made With PVDF or PTFE (Anti-corrosion plastic bearings)

作为氟塑料中最典型的品种，PTFE和PVDF是具有最优良的耐腐蚀性能，其中PTFE更是所有已知工程塑料中耐腐蚀性最好的，可用于所有的浓酸及浓碱场合，包括HF及发烟硫酸硝酸（98%以上）等，且具有良好的高温表现，PTFE证明可用于180°C的高温，PVDF也能用到150°C，但PTFE材料机械强度极低，且尺寸稳定性较差，温度变形大，相比较而言PVDF具有更佳的综合性能，一般内外圈材料选用PTFE或PVDF，保持架材料为PTFE或PVDF，滚珠一般为玻璃球或陶瓷球。

As the typical type of fluoro plastic, PTFE and PVDF have the most excellent anti-corrosion performance among them. As the typical type of fluoroplastic, PTFE and PVDF have the most excellent anti-corrosion performance, among them PTFE is the best of all the plastic known to man, could be used in all the Strong Acid and Alkali application, including HF and smoke formation H2SO4 HNO3 or HCL(98% above), etc. and could be used in high temperature application. PTFE could be used to 180°C and PVDF to 150°C. But PTFE has very low mechanical strength, easy to be out of shape and have large Dimension change when the temperature rise or reduce. So couldn't be used in heavy load and high-speed occasion. Compared with PTFE, PVDF has better compositive performance. Generally the rings and cage made with PTFE or PVDF, Balls made with glass, ceramic or stainless.



塑料轴承系列/Plastic Bearings

5. 塑料轴承座及塑料外球面轴承 Plastic ball bearings for units and plastic ball bearing units.

塑料带座轴承独具重量轻，安装简便，免于维护，同时具有常用铸铁座或冲压座所不具有减震抗冲击性能。随着新材料的不断开发正越来越多地在工程上得到广泛应用。针对不同情况，塑料外球面轴承可采用POM，HDPE，PP，UPE，PTEE等不同材料制作，塑料轴承座一般采用PBT材料。

The plastic ball bearing units specially have the performance of corrosion and wear resistance, reduce vibration and anti-bump, are free from the maintenance and so forth. Such is the most ideal solution of many difficult problem which have puzzled the industry field for hundreds years. Aim at working in different environment, the ball bearing for units made with POM, HDPE, PP, UPE, PTFE or PEEK material, housing of the bearing units generally made with PBT material.



6. 塑料轴承常用规格类型 Generally type of plastic bearings



不锈钢轴承说明 / Stainless Bearings Introduction

▶ 不锈钢轴承 Martensite stainless bearings

高性能的不锈钢轴承在清洁耐蚀的基础上同样提供可与高碳铬钢媲美的高精度及耐磨性，作为标准结构的不锈钢轴承，套圈及滚动体材料采用 AISI SUS440C (9Cr18Mo 或 9Cr18) 经真空淬回火处理，保持架及密封圈骨架材料采用 AISI304 或 AISI316，精度达 ISO 标准 ABEC-1 以上。振动等级 Z1 组及以上。

- ▶ The high performance stainless steel bearings can provides not only with the cleanliness and corrosion resistance characteristic also with the high accuracy and excellent wear resistance compare to the high carbon chrome steel bearings. The rings and balls are made of the material as a standard structure of stainless steel bearing, The rings and balls are made of the material of AISI440C(9CrMo or 9Cr18), the cage and the framework of seal adoption the AI304 or AI316, production accuracy could reach ISO standard ABEC-1 and above, and the vibration level reach Z1 grade and above.

▶ 奥氏体不锈钢轴承 Austenite stainless bearings

我们同样提供非标准形式不锈钢轴承以满足工程上的特种需求，相比较高碳铬马氏体不锈钢（如 440C、420 等），奥氏体不锈钢具有更优良的耐副食性能及抗磁性。奥氏体不锈钢轴承整体采用 AISI SUS316L (316) 或 SUS304 材料制作（包括内外圈、球、及保持架）。因奥氏体不锈钢无法整体淬硬，故该轴承不适用于较大负荷及较高转速。

- ▶ We also can offer non-standard stainless steel bearings to meet some special type needs in engineering. Compare to high carbon chrome martensite stainless steel bearing, Austenite stainless steel bearings have even more excellent corrosion and wear resistance, magnetism resistance. The whole Austenite stainless steel bearings are made of AISI SUS316L(316) or SUS304 (including inside and outside rings, balls and cage). Austenite stainless steel bearings can't harden completely by heat treatment, so it should not choose for heavier load or higher speed.



▶ 不锈钢轴承座及不锈钢外球面轴承 Stainless Housing And Stainless Bearing Units

带座外球面轴承具有自动调心，多次重复润滑，防尘密封良好，安装拆卸方便等优点。被广泛用于各种机械设备及传送装置。不锈钢带座轴承是专门开发用以满足食品、医疗、化工等行业的特殊需求。在保证普通铬钢带座轴承耐磨性能的同时，同样具备耐腐蚀、清洁的优点。轴承座采用 AISI SUS304 材料，外球面轴承使用 AISI SUS440C 材料。特殊用途也可使用 AISI SUS316 材料。

- ▶ Stainless Bearing Units have some advantages, Such as automatic adjustment, Repeated lubrication, Dustproof and convenience for fixing and disassembly. It is widely used in various mechanical equipments and conveying device. Stainless Plummer blocks are specially designed to meet particular engineering demand for food, Medical and chemical industry. Which have some excellence such as cleanness, Anti-corrosion etc. Bearing housing is made of AISI SUS304 and the insert bearings are made of AISI SUS440C, Specially AISI SUS316 also could be used.

不锈钢轴承系列/Stainless Bearings

不锈钢深沟球轴承 /Deep Groove Ball Stainless Bearings

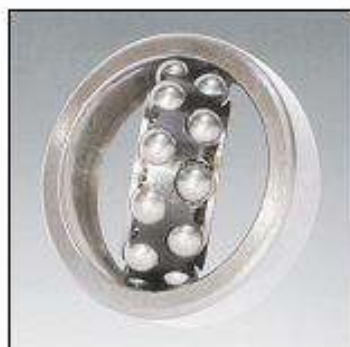


不锈钢角接触轴承/不锈钢双列角接触轴承

Angular contact Ball Stainless Bearings/Double Row Angular contact Ball Stainless Bearings



不锈钢调心球轴承 /Self-aligning Ball Stainless Bearings



不锈钢轴承系列/Stainless Bearings

不锈钢推力球轴承/Thrust Ball Stainless Bearings



不锈钢外球面轴承/Stainless Ball Bearings For Units



不锈钢带座外球面轴承/Stainless Bearing Units



陶瓷球/塑料球/玻璃球/不锈钢球

Ceramic Balls/Plastic Balls/Glass Balls/Stainless Balls

可提供各种陶瓷球、塑料球、玻璃球及不锈钢球。常用材料及适用精度等级如下表:

We could supply ceramic balls, plastic balls, glass balls and stainless balls, staple material and manufacturing precision as following:

	陶瓷球 Ceramic balls	塑料球 Plastic balls	玻璃球 Glass balls	不锈钢球 Stainless balls
常用材料 material	ZrO2, Si3N4, SiC, HR	PUM, UPC	GLASS	440C, 3M
适用精度等级 grad.	G5-G200	G100-G1000	G100-G1000	G5-G200

球的形状公差和表面粗糙度:

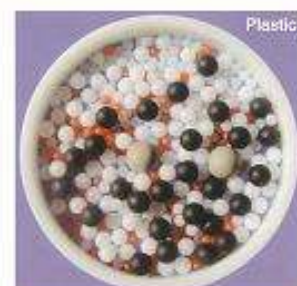
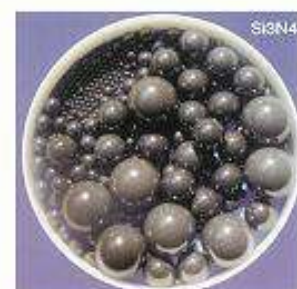
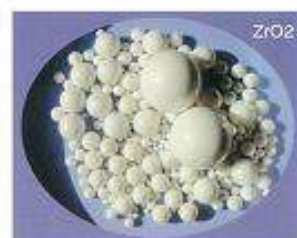
Tolerance and surface roughness of the balls:

精度等级 Grade	球直径变动量 Vdws	球形误差 (Δ Sph)	表面粗糙度 (Ra)	基本直径公差 Diameter Tolerance (For)
	Variation of ball diameter	Deviation from	Surface roughness (micron)	
	不超过 not over, μ m			
G3	0.08	0.08	0.012	*
G5	0.13	0.13	0.02	*
G10	0.25	0.25	0.025	*
G16	0.4	0.4	0.032	*
G20	0.5	0.5	0.04	*
G28	0.7	0.7	0.05	*
G40	1	1	0.06	*
G60	1.5	1.5	0.1	*
G100	2.5	2.5	0.125	± 12.5
G200	5	5	0.2	± 25
G500	13	13	*	± 50
G1000	25	25	*	± 125

常用尺寸规格表:

Staple size of the balls:

规格 (英寸) Size (inch)	规格 (mm) Size (mm)	规格 (英寸) Size (inch)	规格 (mm) Size (mm)
	1.5	1/16 *	1.588
	2	3/32	2.381
1/8 *	3.175	5/32 *	3.969
3/16 *	4.763	7/32 *	5.556
1/4 *	6.35	17/64 *	6.747
	7	9/32 *	7.144
5/16 *	7.938	11/32 *	8.731
3/8 *	9.525	13/32 *	10.319
7/16 *	11.112	29/64 *	11.509
15/32 *	11.906		12
31/64 *	12.303	1/2 *	12.7
17/32 *	13.494		14
9/16 *	14.288	19/32 *	15.081
5/8 *	15.875	21/32 *	16.669
11/16 *	17.463	23/32 *	18.256
3/4 *	19.05	25/32 *	19.844
	20	13/16 *	20.638
7/8 *	22.225	15/16 *	23.812
1 *	25.4	1-1/16 *	26.985
1-1/8 *	28.575	2001-3-16	30.163
1-1/4 *	31.75	1-3/8 *	34.925
	35	1-1/2 *	38.1
1-5/8 *	41.275	1-11/16 *	42.863
1-7/8 *	47.625	2 *	50.8



尺寸表说明/Directions of specification table

公司生产本尺寸所列全陶瓷轴承、塑料轴承、不锈钢轴承及混合陶瓷球轴承，同时亦可提供配合外球面轴承之不锈钢轴承座及塑料轴承座。具体配置如下：

We could product All-ceramic bearings, plastic bearings and stainless bearings as following specification table, also we supply all kinds of stainless housing and plastic housing for units.

	适用类型 Type	代号 Bearing No.	常用内外圈材料 material of rings	常用球材料 material of balls	常用保持架材料 material of cage	结构类型 structure
深沟球系列 Deep groove ball series	全陶瓷轴承 Full ceramic bearings	68..CE 62..CE 69..CE 63..CE 60..CE 160..CE 64..CE	ZrO2 Si3N4 Al2O3 SiC	ZrO2 Si3N4 Al2O3 SiC	PTFE PA66 PEEK PI ZrO2	开式 Open 满球无保持架(full complement no cage)
	塑料轴承 Plastic bearings	P68.. P60.. 60. P62.. P63.. P64.. P160..	POM HDPE PP PEEK PVDF UPE PI PA	玻璃球 (99.99) ZrO2 SUS304 SUS316 POM PA PE	PA66 HDPE PEEK UPE	开式 Open 满球无保持架(full complement no cage)
	不锈钢轴承 stainless bearings	S68.. S69.. S60.. S62.. 63 S64.. S160..	440C 304 316 316L 630	440C 304 316 316L	SUS304 SUS316	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
	混合陶瓷球轴承 Hybrid constructor ceramic ball bearing	(S)68..C (S)69..C (S)60..C (S)62..C (S)63..C (S)64..C (S)160..C	440C 304 316 316L GC15	ZrO2 Si3N4	304 08F PA66 PEEK PTFE	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
角接触球轴承 Angular contact ball series	全陶瓷轴承 Full ceramic bearings	76..CE 70..CE 72..CE 73..CE	ZrO2 Si3N4 Al2O3 SiC	ZrO2 Si3N4 Al2O3 SiC	PTFE PA66 PEEK PI ZrO2	开式 Open 满球无保持架(full complement no cage)
	塑料轴承 Plastic bearings	P76.. P70.. P72.. P73..	POM HDPE PP PEEK PVDF UPE PI PA	玻璃球 (99.99) ZrO2 SUS304 SUS316 POM PA PE	PA66 HDPE PEEK UPE	开式 Open 满球无保持架(full complement no cage)
	不锈钢轴承 stainless bearings	S76.. S70.. S72.. S73..	440C 304 316 316L 630	440C 304 316 316L	304 316 PTFE 酚醛树脂管 Phenolic resin tube	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
	混合陶瓷球轴承 Hybrid constructor ceramic ball bearing	(S)76..C (S)70..C (S)72..C (S)73..C	440C 304 316 316L GC15	ZrO2 Si3N4	304 08F PA66 PEEK PTFE 酚醛树脂管 Phenolic resin tube	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
调心球轴承 self-aligning ball series	全陶瓷轴承 Full ceramic bearings	12..CE 22..CE 13..CE 23..CE	ZrO2 Si3N4 Al2O3 SiC	ZrO2 Si3N4 Al2O3 SiC	PTFE PA66 304 316 PEEK PI	开式 Open
	塑料轴承 Plastic bearings	P12.. P22.. P13.. P23..	POM HDPE PP PEEK PVDF UPE PI PA	玻璃球 (99.99) ZrO2 SUS304 SUS316 POM PA PE	PA66 HDPE PEEK UPE	开式 Open
	不锈钢轴承 stainless bearings	S12.. S22.. S13.. S23..	440C 304 316 316L 630	440C 304 316 316L	SUS304 SUS316 PA66 PTFE	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
	混合陶瓷球轴承 Hybrid constructor ceramic ball bearing	(S)12..C (S)22..C (S)13..C (S)23..C	440C 304 316 316L GC15	ZrO2 Si3N4	304 316 08F PA66 PEEK PTFE	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
双列角接触球轴承 Double row angular contact ball series	全陶瓷轴承 Full ceramic bearings	52..CE 53..CE	ZrO2 Si3N4 Al2O3 SiC	ZrO2 Si3N4 Al2O3 SiC	PTFE PA66 PEEK PI ZrO2	开式 Open 满球无保持架(full complement no cage)
	塑料轴承 Plastic bearings	P52.. P53..	POM HDPE PP PEEK PVDF UPE PI PA	玻璃球 (99.99) ZrO2 SUS304 SUS316 POM PA PE	PA66 HDPE PEEK UPE PTFE	开式 Open 满球无保持架(full complement no cage)
	不锈钢轴承 stainless bearings	S52.. S53..	440C 304 316 316L 630	440C 304 316 316L	PA66 PTFE	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
	混合陶瓷球轴承 Hybrid constructor ceramic ball bearing	(S)52..C (S)53..C	440C 304 316 316L GC15	ZrO2 Si3N4	PA66 PEEK PTFE	开式 Open 满球带防尘盖 (PS) Double roller seal 满球防尘盖防尘盖 (DS) Double shield
推力球轴承 Thrust ball series	全陶瓷轴承 Full ceramic bearings	511..CE 512..CE	ZrO2 Si3N4 Al2O3 SiC	ZrO2 Si3N4 Al2O3 SiC	PTFE PA66 PEEK PI	开式 Open 满球无保持架(full complement no cage)
	塑料轴承 Plastic bearings	P511.. P512..	POM HDPE PP PEEK PVDF UPE PI PA	玻璃球 (99.99) ZrO2 SUS304 SUS316 POM PA PE	PA66 HDPE PEEK UPE	开式 Open 满球无保持架(full complement no cage)
	不锈钢轴承 stainless bearings	S511.. S512..	440C 304 316 316L 630	440C 304 316 316L	SUS304 SUS316 PA66	开式 Open 满球无保持架(full complement no cage)
	混合陶瓷球轴承 Hybrid constructor ceramic ball bearing	(S)511..C (S)512..C	440C 304 316 316L GC15	ZrO2 Si3N4	304 08F PA66 PEEK PTFE	开式 Open 满球无保持架(full complement no cage)

尺寸表说明(续)/Directions of specification(continue)

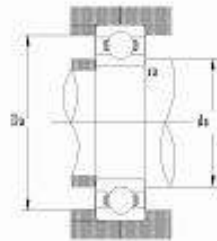
	适用类型 Type	代号 Bearing No.	常用内外圈材料 material of rings	常用球材料 material of balls	常用保持架材料 material of cage	结构类型 structure
外球面系列 Ball bearing for units	全陶瓷轴承 Full ceramic bearings	UC2..CE	ZrO2 Si3N4 Al2O3 SiC	ZrO2 Si3N4 Al2O3 SiC	PTFE PA66 PEEK PI ZrO2	开放式 Open 满球无保持架 Full complement no cage
	塑料轴承 Plastic bearings	PUC2..	POM HDPE PP PEEK PVDF UPE PI PA	玻璃球 (glass) ZrO2 SUS304 SUS316 POM PA PE	PA66 HDPE PEEK UPE	开放式 Open 满球无保持架 Full complement no cage
	不锈钢轴承 stainless bearings	SUC2..	440C 304 316 316L 630	440C 304 316 316L	SUS304 SUS316 PA66	开放式 Open 满球带防尘封盖 (SS) Double shield seals 满球带防尘封盖 (SS) Double shield
	混合陶瓷球轴承 Hybrid construction ceramic ball bearing	(S)UC2..C	440C 304 316 316L GCr15	ZrO2 Si3N4	304 316 08F PA66 PEEK PTFE	开放式 Open 满球带防尘封盖 (SS) Double shield seals 满球带防尘封盖 (SS) Double shield
英制轴承系列 Inch size series	全陶瓷轴承 Full ceramic bearings	16..CE R..CE	ZrO2 Si3N4 Al2O3 SiC	ZrO2 Si3N4 Al2O3 SiC	PTFE PA66 PEEK PI ZrO2	开放式 Open 满球无保持架 Full complement no cage
	塑料轴承 Plastic bearings	P16..PR..	POM HDPE PP PEEK PVDF UPE PI PA	玻璃球 (glass) ZrO2 SUS304 SUS316 POM PA PE	PA66 HDPE PEEK UPE	开放式 Open 满球无保持架 Full complement no cage
	不锈钢轴承 stainless bearings	S16..SR..	440C 304 316 316L 630	440C 304 316 316L	SUS304 SUS316 PA66	开放式 Open 满球带防尘封盖 (SS) Double shield seals 满球带防尘封盖 (SS) Double shield
	混合陶瓷球轴承 Hybrid construction ceramic ball bearing	(S)16..C (S)R..C	440C 304 316 316L GCr15	ZrO2 Si3N4	304 08F PA66 PEEK PTFE	开放式 Open 满球带防尘封盖 (SS) Double shield seals 满球带防尘封盖 (SS) Double shield

尺寸表说明 (外球面轴承座)

Directions of specification(Housing for units)

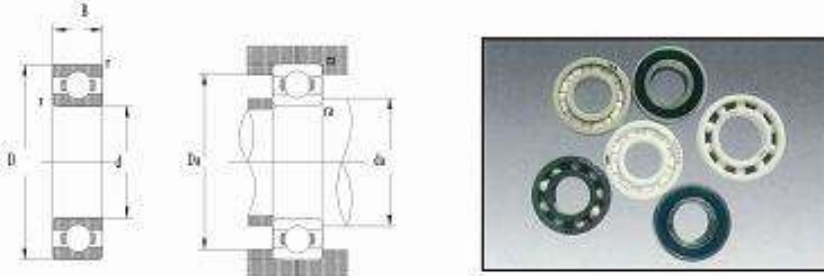
	适用类型 material type	代号 Housing NO.	常用材料 Generally material	配合轴承类型 assembly bearing type
立式座 Pillow block type	塑料座 Plastic	PLP2..	PBT	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing
	不锈钢座 Stainless	SP2..	SUS304	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing
菱形座 Rhombic- flanged type	塑料座 Plastic	PLFL2..	PBT	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing
	不锈钢座 Stainless	SFL2..	SUS304	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing
方形座 Square- flanged type	塑料座 Plastic	PLF2..	PBT	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing
	不锈钢座 Stainless	SF2..	SUS304	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing
滑块座 Take-up type	塑料座 Plastic	PLT2..	PBT	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing
	不锈钢座 Stainless	ST2..	SUS304	SUC2.., 不锈钢外球面轴承 PUC2.., 塑料外球面轴承 SUC2.. stainless insert bearing PUC2.. Plastic insert bearing

深沟球轴承 / Deep groove ball bearings



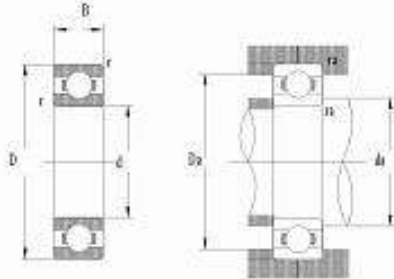
轴承型号 Bearing No.	外形尺寸 Boundary dimensions				Mass 重量 (Kg) (参考) (refer)				轴承型号 Bearing No.	外形尺寸 Boundary dimensions				Mass 重量 (Kg) (参考) (refer)			
	d	D	B	f/min)	ZrO2	Si3N4	PLASTIC	440C		d	D	B	f/min)	ZrO2	Si3N4	PLASTIC	440C
683	3	7	2	0.1	0.00024	0.00013	0.00005	0.00032	6200	10	30	9	0.6	0.025	0.013	0.006	0.032
693		8	3	0.15	0.0005	0.00025	0.0001	0.00061	6300		35	11	0.6	0.040	0.022	0.010	0.052
603		9	3	0.15	0.0007	0.0004	0.0002	0.00087	6801	12	21	5	0.3	0.005	0.0025	0.0012	0.006
623		10	4	0.15	0.0013	0.0007	0.0003	0.00165	6901		24	6	0.3	0.008	0.0042	0.0019	0.01
633		13	5	0.15	0.0025	0.0014	0.0008	0.0034	16001		28	7	0.3	0.015	0.0079	0.004	0.019
684	4	9	2.5	0.1	0.0005	0.0003	0.0001	0.0006	6001		28	8	0.3	0.017	0.0092	0.004	0.019
694		11	4	0.15	0.0013	0.0007	0.0003	0.0017	6201		32	10	0.6	0.028	0.015	0.007	0.037
604		12	4	0.2	0.0017	0.0009	0.0004	0.0023	6301	15	37	12	1	0.048	0.025	0.004	0.022
624		13	5	0.2	0.0023	0.0013	0.0006	0.0030	6802		24	5	0.3	0.005	0.0029	0.0013	0.007
634		16	5	0.3	0.0040	0.0022	0.0010	0.0052	6902		28	7	0.3	0.012	0.0063	0.003	0.005
685	5	11	3	0.15	0.0009	0.0005	0.0002	0.0012	16002		32	8	0.3	0.021	0.011	0.005	0.027
695		13	4	0.2	0.0019	0.0010	0.0005	0.0025	6002		32	9	0.3	0.24	0.013	0.006	0.031
605		14	5	0.2	0.0027	0.0015	0.0007	0.0035	6202	35	11	0.6	0.035	0.019	0.009	0.045	
625		16	5	0.3	0.0038	0.0021	0.0010	0.0050	6302	42	13	1	0.064	0.035	0.016	0.083	
635		19	6	0.3	0.0068	0.0038	0.0016	0.0086	6803	17	26	5	0.3	0.005	0.0029	0.0013	0.007
686	6	13	3.5	0.15	0.0015	0.0008	0.0004	0.0019	6903		30	7	0.3	0.013	0.0071	0.0033	0.017
696		15	5	0.2	0.0030	0.0016	0.0007	0.0039	16003		35	8	0.3	0.025	0.014	0.006	0.033
606		17	6	0.3	0.0048	0.0025	0.0011	0.0060	6003		35	10	0.3	0.032	0.017	0.008	0.041
626		19	6	0.3	0.0063	0.0034	0.0016	0.0086	6203		40	12	0.6	0.052	0.028	0.013	0.067
636		22	7	0.3	0.0108	0.0058	0.0027	0.0140	6303	47	14	1	0.087	0.047	0.022	0.11	
687	7	14	3.5	0.15	0.0017	0.0009	0.0004	0.0022	6403	62	17	1.1	0.21	0.11	0.052	0.27	
697		17	5	0.3	0.0040	0.0022	0.0010	0.0053	6804	20	32	7	0.3	0.013	0.007	0.003	0.017
607		19	6	0.3	0.0059	0.0032	0.0015	0.0077	6904		37	9	0.3	0.028	0.015	0.007	0.037
627		22	7	0.3	0.0098	0.0053	0.0024	0.0127	16004		42	8	0.3	0.037	0.02	0.009	0.048
637		26	9	0.3	0.0185	0.0100	0.0048	0.0240	6004		42	12	0.6	0.052	0.028	0.013	0.068
688	8	16	4	0.2	0.0025	0.0014	0.0006	0.0072	6204		47	14	1	0.082	0.045	0.021	0.11
698		19	6	0.3	0.0056	0.0030	0.0014	0.0072	6304	52	15	1.1	0.11	0.06	0.028	0.15	
608		22	7	0.3	0.0093	0.0050	0.0023	0.012	6404	72	19	1.1	0.31	0.17	0.08	0.4	
628		24	8	0.3	0.013	0.0072	0.0033	0.017	6805	25	37	7	0.3	0.016	0.009	0.004	0.021
638		28	9	0.3	0.022	0.012	0.0054	0.028	6905		42	9	0.3	0.032	0.018	0.01	0.042
689	9	17	4	0.2	0.0027	0.0015	0.0007	0.0035	16005		47	8	0.3	0.045	0.025	0.011	0.059
699		20	6	0.3	0.0065	0.0035	0.0016	0.0085	6005		47	12	0.6	0.061	0.033	0.015	0.079
609		24	7	0.3	0.011	0.0060	0.0028	0.015	6205		52	15	1	0.099	0.054	0.025	0.13
629		26	8	0.3	0.015	0.0081	0.0038	0.020	6305	62	17	1.1	0.18	0.098	0.045	0.24	
639		30	10	0.6	0.028	0.015	0.007	0.037	6405	80	21	1.5	0.41	0.22	0.102	0.53	
6800	10	19	5	0.3	0.004	0.0021	0.0010	0.005	6806	30	42	7	0.3	0.018	0.01	0.005	0.024
6900		22	6	0.3	0.007	0.0038	0.0017	0.009	6906		47	9	0.3	0.04	0.022	0.01	0.052
6000		26	8	0.3	0.014	0.0075	0.0035	0.018	16006		55	9	0.3	0.067	0.038	0.017	0.087

深沟球轴承 / Deep groove ball bearings



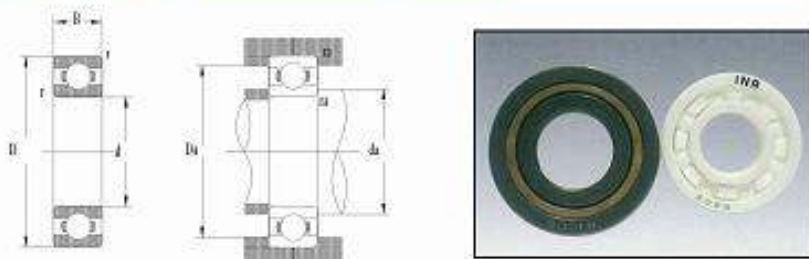
轴承型号 Bearing No.	外形尺寸 Boundary dimensions				Mass 重量 (Kg) (参考) (refer)				轴承型号 Bearing No.	外形尺寸 Boundary dimensions				Mass 重量 (Kg) (参考) (refer)			
	d	D	B	r(mm)	ZrO2	Si3N4	PLASTIC	440C		d	D	B	r(mm)	ZrO2	Si3N4	PLASTIC	440C
6006	30	55	13	1	0.089	0.048	0.022	0.116	6411	55	140	33	2.1	1.76	0.95	0.44	2.29
6206		62	16	1	0.15	0.083	0.038	0.2	6812	78	10	0.3	0.08	0.04	0.02	0.1	
6306		72	19	1.1	0.27	0.14	0.088	0.35	6912	85	13	1	0.15	0.08	0.07	0.19	
6406		90	23	1.5	0.57	0.31	0.14	0.74	16012	95	11	0.6	0.22	0.12	0.54	0.28	
6807	35	47	7	0.3	0.021	0.011	0.005	0.027	6012	60	95	18	1.1	0.32	0.17	0.79	0.41
6907		55	10	0.6	0.058	0.031	0.014	0.075	6212	110	22	1.5	0.6	0.33	0.15	0.78	
16007		82	9	0.3	0.082	0.045	0.21	0.11	6312	130	31	2.1	1.32	0.72	0.33	1.72	
6007		62	14	1	0.12	0.63	0.029	0.15	6412	150	35	2.1	2.13	1.15	0.53	2.77	
6207	40	72	17	1.1	0.22	0.12	0.055	0.28	6813	85	10	0.6	0.1	0.05	0.025	0.13	
6307		80	21	1.5	0.36	0.19	0.089	0.48	6913	90	13	1	0.17	0.09	0.04	0.22	
6407		100	25	1.5	0.73	0.40	0.18	0.95	16013	100	11	0.6	0.23	0.13	0.06	0.3	
6808		52	7	0.3	0.02	0.013	0.006	0.03	6013	65	100	18	1.1	0.34	0.18	0.08	0.44
6908	45	82	12	0.8	0.09	0.05	0.022	0.11	6213	120	23	1.5	0.77	0.42	0.19	1.00	
16008		68	9	0.3	0.10	0.05	0.025	0.13	6313	140	33	2.1	1.62	0.88	0.41	2.11	
6008		68	15	1	0.15	0.08	0.037	0.19	6413	160	37	2.1	2.54	1.35	0.60	3.3	
6208		80	18	1.1	0.28	0.15	0.07	0.37	6814	90	10	0.6	0.1	0.056	0.03	0.13	
6308	50	90	13	1.5	0.49	0.27	0.12	0.64	6914	100	16	1	0.27	0.15	0.07	0.36	
6408		210	27	2	0.946	0.513	0.24	1.230	16014	110	13	0.6	0.34	0.18	0.08	0.44	
6809		58	7	1.3	0.029	0.016	0.007	0.038	6014	70	110	20	1.1	0.47	0.25	0.12	0.61
6909		68	12	0.8	0.097	0.053	0.024	0.13	6214	125	24	1.5	0.84	0.45	0.21	1.09	
16009	55	75	10	0.6	0.13	0.07	0.032	0.17	6318	150	35	2.1	1.98	1.07	0.49	2.57	
6009		75	16	1	0.19	0.1	0.046	0.24	6414	180	42	3	3.71	1.98	0.87	4.83	
6209		85	19	1.1	0.32	0.175	0.081	0.42	6815	75	95	10	0.6	0.011	0.06	0.029	0.15
6309		100	25	1.5	0.64	0.345	0.16	0.83	6915	105	16	1	0.28	0.15	0.070	0.36	
6409	60	120	29	2	1.18	0.64	0.29	1.53	16015	115	13	0.6	0.36	0.09	0.089	0.46	
6810		85	7	0.3	0.038	0.021	0.010	0.05	6015	75	115	20	1.1	0.5	0.27	0.12	0.65
6910		72	12	0.6	0.1	0.06	0.026	0.14	6215	130	25	1.5	0.92	0.5	0.23	1.19	
16010		80	10	0.6	0.13	0.07	0.034	0.18	6315	160	37	2.1	2.37	1.28	0.55	3.08	
6010	65	80	16	1	0.20	0.11	0.05	0.26	6415	190	45	3	4.82	2.41	1.05	5.87	
6210		90	20	1.1	0.35	0.19	0.088	0.46	6818	80	100	10	0.6	0.12	0.063	0.03	0.15
6310		110	27	2	0.82	0.44	0.2	1.06	6916	110	16	1	0.3	0.16	0.075	0.39	
6410		130	31	2.1	1.45	0.78	0.36	1.88	16016	125	14	0.6	0.48	0.26	0.12	0.62	
6811	70	72	9	0.3	0.06	0.03	0.016	0.08	6016	80	125	22	1.1	0.67	0.36	0.17	0.87
6911		80	13	1	0.15	0.08	0.036	0.18	6216	140	26	2	1.09	0.59	0.27	1.42	
16011		90	11	0.8	0.2	0.11	0.049	0.26	6316	170	39	2.1	2.82	1.51	0.66	3.67	
6011		90	18	1.1	0.29	0.16	0.073	0.38	6416	200	48	3	8.26	2.81	1.23	6.84	
6211	75	100	21	1.5	0.48	0.26	0.12	0.62	6817	85	110	13	1	0.2	0.11	0.051	0.26
6311		120	29	2	1.05	0.57	0.26	1.37	6917	120	18	1.1	0.42	0.23	0.11	0.55	

深沟球轴承 / Deep groove ball bearings



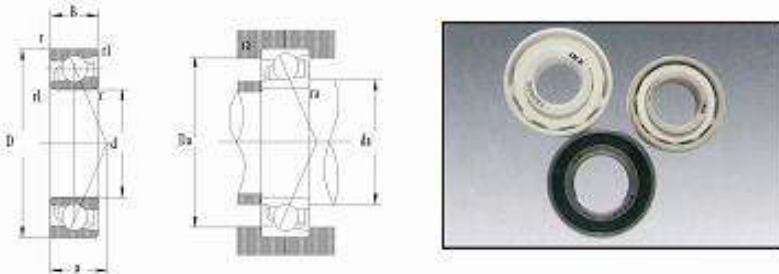
轴承型号 Bearing No.	外形尺寸 Boundary dimensions				Mass 重量 (Kg) (参考) (refer)				轴承型号 Bearing No.	外形尺寸 Boundary dimensions				Mass 重量 (Kg) (参考) (refer)			
	d	D	B	r(min)	ZrO2	Si3N4	PLASTIC	440C		d	D	B	r(min)	ZrO2	Si3N4	PLASTIC	440C
6017	85	130	14	0.6	0.5	0.27	0.13	0.65	6924	120	150	16	1	0.41	0.22	0.1	0.54
6017		130	22	1.1	0.71	0.36	0.18	0.92	6924		165	22	1.1	1.08	0.58	0.25	1.41
6217		150	28	2	1.35	0.73	0.34	1.76	18024		180	19	1	1.38	0.74	0.32	1.8
6317		180	41	3	3.25	1.74	0.76	4.23	6024		180	28	2	1.6	0.85	0.37	2.07
6818	90	115	13	1	0.21	0.12	0.05	0.28	6224	130	215	40	2.1	3.96	2.11	0.92	5.15
6918		125	18	1.1	0.45	0.24	0.11	0.59	6324		200	55	3	9.62	5.13	2.24	12.5
16018		140	16	1	0.67	0.36	0.17	0.87	6826		165	18	1.1	0.72	0.39	0.17	0.94
6018		140	24	1.5	0.92	0.5	0.23	1.19	6926		180	24	1.5	1.43	0.76	0.33	1.86
6218	95	160	30	2	1.65	0.88	0.39	2.15	16026	140	200	22	1.1	2.07	1.10	0.48	2.69
6318		190	43	3	3.78	2.01	0.88	4.91	6026		200	33	2	2.43	1.30	0.57	3.16
6819		120	13	1	0.23	0.12	0.057	1.3	6226		230	40	3	4.48	2.39	1.04	5.82
6919		130	18	1.1	0.46	0.25	0.12	0.6	6326		280	58	4	11.6	6.2	2.71	15.1
16019	100	145	16	1	0.7	0.36	0.17	0.9	6828	150	175	18	1.1	0.77	0.41	0.18	1.03
6019		145	24	1.5	0.95	0.51	0.24	1.23	6928		190	24	1.5	1.52	0.81	0.36	1.98
6219		170	32	2.1	2.02	1.07	0.47	2.62	18028		210	22	1.1	2.20	1.17	0.51	2.86
6319		200	45	3	4.36	2.33	1.02	5.87	6028		210	33	2	2.73	1.46	0.64	3.55
6820	105	125	13	1	0.24	0.13	0.06	0.31	6228	160	250	42	3	5.73	3.06	1.34	7.45
6920		140	20	1.1	0.64	0.35	0.16	0.83	6328		300	62	4	14.9	7.96	3.48	19.4
16020		150	16	1	0.73	0.39	0.19	0.95	6830		190	20	1.1	1.08	0.57	0.25	1.40
6020		150	24	1.5	0.99	0.54	0.25	1.29	6930		210	28	2	2.35	1.25	0.55	3.05
6220	110	180	34	2.1	2.42	1.29	0.56	3.14	18030	22	225	24	1.1	2.75	1.47	0.64	3.58
6320		215	47	3	5.38	2.87	1.26	7.0	6030		225	35	2.1	3.25	1.73	0.76	4.22
6821		130	13	1	0.25	0.14	0.06	0.32	6230		270	45	3	7.24	3.86	1.69	9.41
6921		145	20	1.1	0.66	0.36	0.16	0.86	6330		320	65	4	20.15	10.74	4.70	26.2
16021	105	160	18	1	0.92	0.49	0.22	1.2	6022	28	44	12	0.6	0.57	0.030	0.013	0.074
6021		160	26	2	1.22	0.65	0.29	1.59	6222		50	14	1	0.092	0.046	0.021	0.119
6221		190	36	2.1	2.85	1.52	0.66	3.7	6022		56	16	1.1	0.138	0.073	0.032	0.179
6321		225	49	3	6.19	3.30	1.44	8.05	6028		52	12	0.6	0.074	0.039	0.017	0.098
6822	110	140	16	1	0.38	0.21	0.1	0.5	6228	32	58	16	1	0.136	0.072	0.031	0.175
6922		150	20	1.1	0.69	0.37	0.17	0.89	6328		68	18	1.1	0.221	0.118	0.052	0.287
16022		170	19	1	1.12	0.6	0.26	1.46	6032		58	13	1	0.094	0.050	0.022	0.122
6022		170	28	2	1.51	0.8	0.35	1.96	6232		65	17	1	0.173	0.092	0.040	0.225
6222	110	200	38	2.1	3.35	1.8	0.78	4.36	6332	32	75	20	1.1	0.299	0.160	0.070	0.389
6322		240	50	3	7.34	3.91	1.71	9.54									

英制轴承/Inch size ball bearings



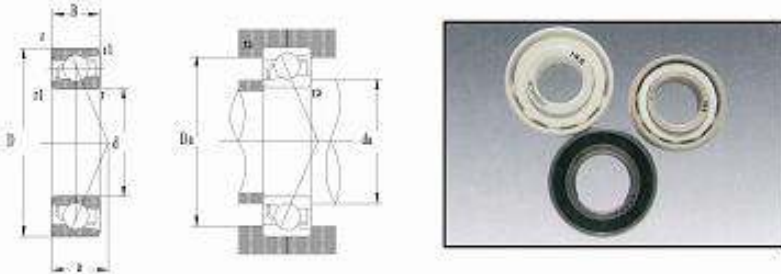
轴承型号 Bearing No.	孔径直Bore		外径O.D		宽度Width		Mass重量			
	d		D		B		(Kg) (参考) (refer)			
	mm	in.	mm	in.	mm	in.	ZrO2	Si3N4	PLASTIC	440C
1601	4.763	3/16	17.463	11/16	6.350	1/4	0.0038	0.0021	0.0009	0.005
1602	6.350	1/4	17.463	11/16	6.350	1/4	0.0046	0.0025	0.0011	0.006
1603	7.938	1/32	22.225	7/8	7.144	9/32	0.0085	0.0045	0.0020	0.011
1604	9.525	3/8	22.225	7/8	7.144	9/32	0.0100	0.0053	0.0023	0.013
1605	7.938	7/16	23.019	29/32	7.938	5/16	0.0031	0.0016	0.0007	0.004
1606	9.525	3/8	23.019	29/32	7.938	5/16	0.0115	0.0062	0.0027	0.015
1607	11.113	7/16	23.019	29/32	7.938	5/16	0.0123	0.0066	0.0029	0.016
1614	9.525	3/8	28.575	9/8	9.525	3/8	0.0220	0.0117	0.0051	0.0286
1615	11.113	7/16	28.575	9/8	9.525	3/8	0.0205	0.0110	0.0048	0.0267
1616	12.700	1/2	28.575	9/8	9.525	3/8	0.1900	0.1013	0.0443	0.247
1620	11.113	7/16	34.925	11/8	11.113	7/16	0.0400	0.0213	0.0093	0.0520
1621	12.700	1/2	34.925	11/8	11.113	7/16	0.0377	0.0201	0.0088	0.0490
1622	14.288	9/16	34.925	11/8	11.113	7/16	0.0357	0.0190	0.0083	0.0464
1623	15.875	5/8	34.925	11/8	11.113	7/16	0.0332	0.0177	0.0078	0.0432
1628	15.875	5/8	41.275	13/8	12.700	1/2	0.0606	0.0323	0.0141	0.0788
1630	19.050	3/4	41.275	13/8	12.700	1/2	0.0599	0.0320	0.0140	0.0779
1633	15.875	5/8	44.450	7/4	12.700	1/2	0.0769	0.0410	0.0179	0.100
1635	19.050	3/4	44.450	7/4	12.700	1/2	0.0703	0.0375	0.0164	0.0914
R2	3.175	1/8	9.525	3/8	3.967	5/32	0.0011	0.0006	0.0003	0.0014
R2A	3.175	1/8	12.700	1/2	4.366	11/64	0.0022	0.0012	0.0005	0.0029
R3	4.762	3/16	12.700	1/2	3.967	5/32	0.0018	0.0010	0.0004	0.0024
R4	6.350	1/4	15.875	5/8	4.978	19/60	0.0035	0.0019	0.0008	0.0046
R4A	6.350	1/4	19.050	3/4	5.556	7/32	0.0054	0.0029	0.0013	0.007
R6	9.525	3/8	22.225	7/8	5.556	7/32	0.0085	0.0045	0.0020	0.011
R8	12.700	1/2	28.575	11/8	6.350	1/4	0.0108	0.0057	0.0025	0.014
R10	15.875	5/8	34.525	13/8	7.144	9/32	0.0215	0.0115	0.0050	0.028
R12	19.050	3/4	41.275	15/8	7.938	5/16	0.0323	0.0172	0.0075	0.042
R14	22.225	7/8	47.625	17/8	9.525	3/8	0.0554	0.0295	0.0129	0.072
R16	25.400	1	50.800	2	9.525	3/8	0.0654	0.0349	0.0153	0.085
R18	28.575	11/8	53.975	21/8	9.525	3/8	0.0654	0.0349	0.0153	0.085
R20	31.750	11/4	57.150	21/4	9.525	3/8	0.0638	0.0341	0.0149	0.083
R22	34.925	13/8	63.500	21/2	11.113	7/16	0.1038	0.0554	0.0242	0.135
R24	38.100	11/2	66.675	25/8	11.113	7/16	0.1108	0.0591	0.0258	0.144

角接触轴承 / Angular contact ball bearings



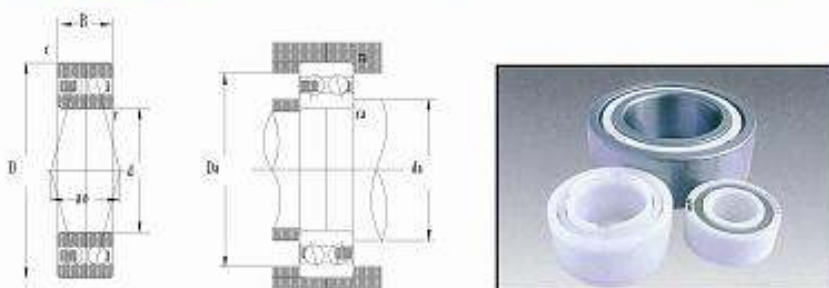
轴承型号 Bearing No.	外形尺寸 (mm) Boundary dimension (mm)					有关安装尺寸 (mm)			Mass重量 (Kg) (参考) (refer)			
	d	D	B	r 最小(min)	F1 最小(min)	有关安装尺寸 (mm)			ZrO2	SGN4	PLASTIC	440C
						da 最小(min)	Da 最大(max)	ra 最大(max)				
7900	10	22	6	0.3	0.15	12.5	19.5	0.3	0.007	0.0038	0.0016	0.009
7000		26	8	0.3	0.15	12.5	23.5	0.3	0.014	0.0075	0.0032	0.018
7200		30	9	0.6	0.3	15	25	0.6	0.025	0.013	0.0057	0.032
7300		35	11	0.6	0.3	15	30	0.6	0.040	0.022	0.0093	0.052
7901	12	24	6	0.3	0.15	14.5	21.5	0.3	0.008	0.0042	0.0018	0.01
7001		28	8	0.3	0.15	14.5	25.5	0.3	0.017	0.0092	0.0039	0.022
7201		32	10	0.6	0.3	17	27	0.6	0.028	0.015	0.0066	0.037
7301		37	12	1	0.6	18	31	1	0.046	0.025	0.0108	0.06
7902	15	28	7	0.3	0.15	17.5	25.5	0.3	0.012	0.0063	0.0027	0.015
7002		32	9	0.3	0.15	17.5	29.5	0.3	0.024	0.013	0.0058	0.031
7202		35	11	0.6	0.3	20	30	0.3	0.035	0.019	0.0081	0.045
7302		42	13	1	0.6	21	36	1	0.064	0.035	0.0149	0.083
7903	17	30	7	0.3	0.15	19.5	27.5	0.3	0.013	0.0071	0.0031	0.017
7003		35	10	0.3	0.15	19.5	32.5	0.3	0.032	0.017	0.0074	0.041
7203		40	12	0.6	0.3	22	35	0.6	0.052	0.028	0.0120	0.067
7303		47	14	1	0.6	23	41	1	0.087	0.047	0.0203	0.113
7904	20	37	9	0.3	0.15	22.5	34.5	0.3	0.028	0.015	0.0066	0.037
7004		42	12	0.6	0.3	25	37	0.6	0.052	0.028	0.0122	0.068
7204		47	14	1	0.6	26	41	1	0.082	0.045	0.0192	0.107
7304		52	15	1.1	0.6	27	45	1	0.11	0.060	0.0260	0.145
7905	25	42	9	0.3	0.15	27.5	39.5	0.3	0.032	0.018	0.0075	0.042
7005		47	12	0.6	0.3	30	42	0.6	0.061	0.033	0.0142	0.079
7205		52	15	1	0.6	31	46	1	0.099	0.54	0.0232	0.129
7305		62	17	1.1	0.6	32	55	1	0.18	0.098	0.0422	0.235
7906	30	47	9	0.3	0.15	32.5	44.5	1	0.040	0.022	0.0093	0.052
7006		55	13	1	0.6	36	49	1	0.089	0.048	0.0208	0.116
7206		62	16	1	0.6	36	56	1	0.15	0.083	0.0357	0.199
7306		72	19	1.1	0.6	37	65	1	0.27	0.14	0.0619	0.345
7907	35	55	10	0.6	0.3	40	50	0.6	0.058	0.031	0.0135	0.075
7007		62	14	1	0.6	41	56	1	0.12	0.063	0.0271	0.151
7207		72	17	1.1	0.6	42	65	1	0.22	0.012	0.0510	0.284
7307		80	21	1.5	1	44	71	1.5	0.36	0.19	0.0833	0.464
7908	40	62	12	0.6	0.3	45	57	0.6	0.09	0.05	0.0201	0.112
7008		68	15	1	0.6	46	62	1	0.15	0.08	0.0341	0.19
7208		80	18	1.1	0.6	47	73	1	0.28	0.15	0.0657	0.366
7308		90	23	1.5	1	49	81	1.5	0.49	0.27	0.1142	0.636
7909	45	68	12	0.6	0.3	50	63	0.6	0.097	0.053	0.0226	0.126
7009		75	16	1	0.6	51	69	1	0.19	0.100	0.0433	0.241
7209		85	19	1.1	0.6	52	78	1	0.32	0.175	0.0754	0.42
7309		100	25	1.5	1	54	91	1.5	0.64	0.345	0.1488	0.829

角接触轴承/Angular contact ball bearings



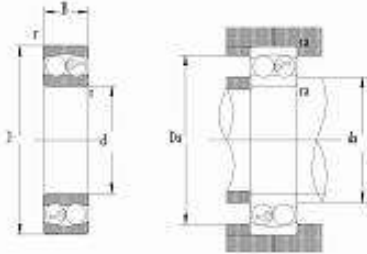
轴承型号 Bearing No.	外形尺寸 (mm)		Boundary dimension (mm)			有关安装尺寸 (mm)			Mass重量			
	d	D	B	r 最小(min)	r1最小(min)	da	Da	ra	(Kg) (参考) (refer)			
						最小(min)	最大(max)	最大(max)	ZrO2	SiON4	PLASTIC	440C
7910	50	72	12	0.6	0.3	55	67	0.6	0.10	0.08	0.0242	0.135
7010		80	16	1	0.3	56	74	1	0.20	0.11	0.0468	0.261
7210		90	20	1.1	0.6	57	83	1	0.35	0.19	0.0824	0.459
7310		110	27	2	1	60	100	2	0.82	0.44	0.1903	1.06
7911	55	80	13	1	0.6	61	74	1	0.15	0.08	0.0339	0.189
7011		90	18	1.1	0.6	62	83	1	0.29	0.16	0.0684	0.381
7211		100	21	1.5	1	64	91	1.5	0.48	0.26	0.1111	0.619
7311		120	29	2	1	65	110	2	1.05	0.57	0.2549	1.37
7911CE	60	65	13	1	0.6	66	79	1	0.15	0.08	0.0345	0.192
7012CE		95	18	1.1	0.6	67	88	1	0.32	0.17	0.0739	0.412
7212CE		110	22	1.5	1	69	101	1.5	0.60	0.33	0.1405	0.783
7312CE		130	31	2.1	1.1	72	118	2	1.32	0.72	0.3087	1.72
7913CE	65	90	13	1	0.6	71	84	1	0.17	0.09	0.0391	0.218
7013CE		100	18	1.1	0.6	72	93	1	0.34	0.18	0.0788	0.439
7213CE		120	23	1.5	1	74	111	1.5	0.77	0.42	0.1795	1
7313CE		140	33	2.1	1.1	77	128	2	1.62	0.89	0.3787	2.11
7914CE	70	100	16	1	0.6	76	94	1	0.27	0.15	0.0626	0.349
7014CE		110	20	1.1	0.6	77	103	1	0.47	0.25	0.1091	0.608
7214CE		125	24	1.5	1	79	116	1.5	0.84	0.45	0.1956	1.09
7314CE		150	35	2.1	1.1	82	138	2	1.98	1.07	0.4613	2.57
7915CE	75	105	16	1	0.6	81	99	1	0.28	0.15	0.0653	0.364
7015CE		115	20	1.1	0.6	82	108	1	0.50	0.27	0.1165	0.649
7215CE		130	25	1.5	1	84	121	1.5	0.92	0.50	0.2136	1.19
7916CE	80	110	16	1	0.6	86	104	1	0.30	0.16	0.0702	0.391
7016CE		125	22	1.1	0.6	87	118	1	0.67	0.36	0.1565	0.872
7216CE		140	26	2	1	90	130	2	1.09	0.59	0.2549	1.42
7017CE		85	130	22	1.1	0.6	92	123	1	0.71	0.38	0.1648
7217CE	150		28	2	1	95	140	2	1.35	0.73	0.3159	1.76
7918CE	90	125	18	1.1	0.6	97	118	1	0.45	0.24	0.1050	0.585
7018CE		140	24	1.5	1	99	131	1.5	0.92	0.50	0.2136	1.19
7919CE	95	130	18	1.1	0.6	102	123	1	0.46	0.25	0.1079	0.601
7019CE		145	24	1.5	1	104	136	1.5	0.95	0.51	0.2208	1.23
7920CE	100	140	20	1.1	0.6	107	133	1	0.64	0.35	0.1486	0.828
7020CE		150	24	1.5	1	109	141	1.5	0.99	0.54	0.2315	1.29
7921CE	105	145	20	1.1	0.6	112	138	1	0.66	0.36	0.1536	0.856
7922CE	110	150	20	1.1	0.6	117	143	1	0.69	0.37	0.1603	0.893

双列角接触轴承 / Double row angular contact ball bearings



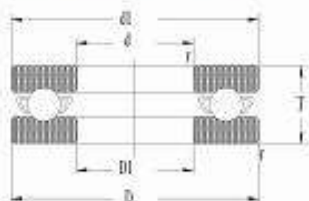
轴承型号 Bearing No.	外形尺寸 (mm) Boundary dimension (mm)				有关安装尺寸 (mm)			Mass重量 (Kg) (参考) (refer)			
	d	D	B	r 最小(min)	da		ra	ZrO2	Si3N4	PLASTIC	440C
					最小(min)	最大(max)					
5200	10	30	14.3	0.6	15	25	0.6	0.04	0.02	0.01	0.050
5201	12	32	15.9	0.6	17	27	0.6	0.05	0.02	0.01	0.060
5202	15	35	15.9	0.6	20	30	0.6	0.05	0.03	0.01	0.070
5302	15	42	19	1	21	36	1	0.08	0.05	0.02	0.11
5203	17	40	17.5	0.6	22	35	0.6	0.7	0.04	0.02	0.090
5303	17	47	22.2	1	23	41	1	0.11	0.06	0.03	0.14
5204	20	47	20.6	1	26	41	1	0.09	0.05	0.02	0.12
5304	20	52	22.2	1.1	27	45	1	0.18	0.09	0.04	0.23
5205	25	52	20.6	1	31	46	1	0.15	0.08	0.03	0.19
5305	25	62	25.4	1.1	32	55	1	0.26	0.14	0.06	0.34
5206	30	62	23.8	1	36	56	1	0.22	0.12	0.05	0.29
5306	30	72	30.2	1.1	37	65	1	0.39	0.21	0.09	0.51
5207	35	72	27	1.1	42	65	1	0.33	0.18	0.08	0.43
5307	35	80	34.9	1.5	44	71	1.5	0.61	0.32	0.14	0.79
5208	65	80	30.2	1.1	47	73	1	0.44	0.23	0.10	0.57
5308	40	90	36.5	1.5	49	81	1.5	0.81	0.43	0.19	1.05
5209	45	85	30.2	1.1	52	78	1	0.48	0.25	0.11	0.62
5309	45	100	39.7	1.5	54	91	1.5	1.08	0.57	0.25	1.4
5210	50	90	30.2	1.1	57	83	1	0.52	0.27	0.12	0.67
5310	50	110	44.4	2	60	100	2	1.50	0.80	0.35	1.95
5211	55	100	33.3	1.5	64	91	1.5	0.74	0.39	0.17	0.96
5311	55	120	49.2	2	65	110	2	1.77	0.94	0.41	2.3
5212	60	111	36.5	1.5	69	101	1.5	1.04	0.55	0.24	1.35
5312	60	130	54	2.1	72	118	2	2.42	1.29	0.57	3.15
5213	65	120	38.1	1.5	74	111	1.5	1.27	0.66	0.30	1.65
5313	65	140	58.7	2.1	77	128	2	2.96	1.58	0.69	3.85
5214	70	125	39.7	1.5	79	116	1.5	1.38	0.74	0.32	1.8
5314	70	150	63.5	2.1	82	138	2	3.77	20.1	0.88	4.9
5215	75	130	41.3	1.5	84	121	1.5	1.46	0.78	0.34	1.9
5216	80	140	44.4	2	90	130	2	1.92	1.03	0.45	2.5
5217	85	150	49.2	2	95	140	2	2.62	1.39	0.61	3.4

调心球轴承 / Self-aligning ball bearings



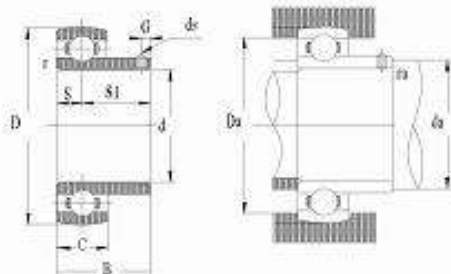
轴承型号 Bearing No.	外形尺寸 (mm) Boundary dimension (mm)				重量 mass (Kg) refer			轴承型号 Bearing No.	外形尺寸 (mm) Boundary dimension (mm)				重量 mass (Kg) refer		
	d	D	B	r(min)	ZrO2	Si3N4	SiSi440C		d	D	B	r(min)	ZrO2	Si3N4	SiSi440C
135	5	19	6	0.3	0.007	0.004	0.009	2210	90	23	1.1	0.45	0.24	0.59	
126	6	19	6	0.3	0.007	0.004	0.009	1310	110	27	2	0.93	0.50	1.21	
127	7	22	7	0.3	0.011	0.006	0.014	2310	110	40	2	1.26	0.67	1.64	
108	8	22	7	0.3	0.011	0.006	0.014	1211	100	21	1.5	0.54	0.29	0.71	
129	9	26	8	0.6	0.017	0.009	0.022	2211	100	25	1.5	0.62	0.33	0.81	
1200		30	9	0.6	0.026	0.14	0.034	1311	120	29	2	1.22	0.65	1.58	
2200	10	30	14	0.6	0.036	0.19	0.047	2311	120	43	2	1.62	0.86	2.1	
1300		25	11	0.6	0.045	0.24	0.058	1212	110	22	1.5	0.69	0.37	0.9	
2300		25	17	0.6	0.065	0.35	0.85	2212	110	28	1.5	0.64	0.45	1.09	
1201	12	32	10	0.6	0.031	0.16	0.04	1312	130	31	2.1	1.51	0.80	0.96	
2201		32	14	0.6	0.041	0.022	0.053	2312	130	46	2.1	2.00	1.07	2.6	
1301		37	12	1	0.052	0.027	0.067	1213	120	23	1.5	0.88	0.47	1.15	
2301		37	17	1	0.073	0.039	0.095	2213	120	31	1.5	1.12	0.60	1.46	
1202	15	35	11	0.6	0.038	0.20	0.049	1313	140	33	2.1	1.88	1.01	2.45	
2202		35	14	0.6	0.046	0.25	0.06	2313	140	48	2.1	2.48	1.33	3.23	
1302		42	13	1	0.072	0.039	0.094	1214	125	24	1.5	0.97	0.52	1.26	
2302		42	17	1	0.088	0.047	0.11	2214	125	31	1.5	1.17	0.62	1.52	
1203	17	40	12	0.6	0.056	0.030	0.073	1314	150	35	2.1	2.30	1.23	2.99	
2203		40	16	0.6	0.068	0.036	0.088	2314	150	51	2.1	3.25	1.74	4.23	
1303		47	14	1	0.10	0.053	0.13	1215	130	25	1.5	1.02	0.56	1.36	
2303		47	19	1	0.12	0.065	0.16	2215	130	31	1.5	1.25	0.66	1.62	
1204	20	47	14	1	0.09	0.049	0.12	1315	160	37	2.1	2.70	4.44	3.51	
2204		47	18	1	0.11	0.057	0.14	2315	160	55	2.1	3.85	2.06	5.01	
1304		52	15	1.1	0.13	0.067	0.16	1216	140	26	2	1.28	0.69	1.67	
1304		52	21	1.1	0.16	0.086	0.21	1316	140	33	2	1.55	0.82	2.01	
1205	25	52	15	1	0.11	0.058	0.14	2216	170	39	2.1	3.17	1.69	4.12	
2205		52	18	1	0.13	0.067	0.16	2316	170	58	2.1	4.85	2.45	5.96	
1305		62	17	1.1	0.20	0.11	0.26	1217	150	28	2	1.59	0.85	2.07	
2305		62	24	1.1	0.26	0.14	0.34	2217	150	36	2	1.94	1.03	2.52	
1206	30	62	16	1	0.17	0.090	0.22	1317	180	41	3	3.78	2.01	4.91	
2206		62	20	1	0.20	0.11	0.26	2317	180	60	3	5.3	2.83	6.89	
1306		72	19	1.1	0.30	0.16	0.39	1218	160	30	2	1.91	1.02	2.48	
2306		72	27	1.1	0.38	0.21	0.50	2218	160	40	2	2.56	1.37	3.33	
1207	35	72	17	1.1	0.25	0.13	0.32	1318	190	43	3	4.4	2.34	5.71	
2207		72	23	1.1	0.31	0.17	0.40	2318	190	64	3	6.35	3.38	8.25	
1307		80	21	1.5	0.39	0.21	0.51	1219	170	32	3.1	2.35	1.25	3.05	
2307		80	31	1.5	0.52	0.28	0.68	2219	170	43	2.1	3.08	1.64	4	
1208	40	80	18	1.1	0.32	0.17	0.42	1319	200	45	3	5.07	2.7	6.59	
2208		80	23	1.1	0.39	0.21	0.51	2319	200	67	3	7.36	3.93	9.57	
1308		90	23	1.5	0.55	0.29	0.72	1220	180	34	2.1	2.8	1.1	3.64	
2308		90	33	1.5	0.71	0.38	0.93	2220	180	46	2.1	3.75	2	4.87	
1209	45	85	19	1.1	0.36	0.19	0.47	1221	190	36	2.1	3.36	1.8	4.37	
2209		85	23	1.1	0.42	0.22	0.55	2221	190	50	2.1	4.67	2.49	60.7	
1309		100	25	1.5	0.74	0.39	0.96	1222	200	38	2.1	3.96	2.11	5.15	
2309		100	36	1.5	0.95	0.50	1.23	2222	200	53	2.1	5.46	2.91	7.1	
1210		90	20	1.1	0.40	0.22	0.53								

推力球轴承 / Single direction thrust ball bearing



轴承型号 Bearing No.	外形尺寸 (mm) Boundary dimension (mm)						Mass重量			
	d	D	T	r (最小)	d ₁	D ₁	(Kg) [参考] (refer)			
							ZrO ₂	SiCN4	PLASTIC	440C
51100	10	24	9	0.3	24	11	0.015	0.0078	0.0034	0.019
51200		26	11	0.6	26	12	0.022	0.011	0.0050	0.028
51101	12	26	9	0.3	26	13	0.016	0.009	0.0038	0.021
51201		28	11	0.6	28	14	0.024	0.013	0.0056	0.031
51102	15	28	9	0.3	28	16	0.018	0.0094	0.0041	0.023
51202		32	12	0.6	32	17	0.033	0.018	0.0077	0.043
51103	17	30	9	0.3	30	18	0.019	0.010	0.0045	0.025
51203		35	12	0.6	35	19	0.038	0.021	0.0090	0.05
51104	20	35	10	0.3	35	21	0.028	0.015	0.0066	0.037
51204		40	14	0.6	40	22	0.059	0.032	0.0138	0.077
51105	25	42	1	0.6	42	26	0.043	0.023	0.0101	0.056
51205		47	15	0.6	47	27	0.085	0.046	0.0199	0.11
51106	30	47	11	0.6	47	32	0.049	0.026	0.0115	0.064
51206		52	16	0.6	52	32	0.11	0.056	0.0246	0.14
51107	35	52	12	0.6	52	37	0.062	0.033	0.0145	0.081
51207		62	18	1	62	37	0.16	0.086	0.0377	0.21
51108	40	60	13	0.6	60	42	0.092	0.049	0.0215	0.12
51508		68	19	1	68	42	0.21	0.11	0.0485	0.27
51109	45	65	14	0.6	65	47	0.11	0.059	0.0257	0.14
51209		73	20	1	73	47	0.24	0.13	0.0556	0.31
51110	50	70	14	0.6	70	52	0.12	0.063	0.0275	0.15
51210		78	22	1	78	52	0.29	0.16	0.0678	0.38
51111	55	78	16	0.6	78	57	0.17	0.093	0.0407	0.23
51211		90	25	1	90	57	0.46	0.25	0.1075	0.60
51112	60	85	17	1	85	62	0.22	0.12	0.0504	0.28
51212		95	26	1	95	62	0.52	0.28	0.1208	0.67
51113	65	90	18	1	90	67	0.25	0.13	0.0582	0.32
51213		100	27	1	100	67	0.58	0.31	0.1357	0.76
51114	70	95	18	1	95	72	0.27	0.14	0.0521	0.35
51214		105	27	1	105	72	0.61	0.33	0.1423	0.79
51115	75	100	19	1	100	77	0.30	0.16	0.0698	0.39
51215		110	27	1	110	77	0.65	0.35	0.1517	0.85
51116	80	105	19	1	105	82	0.32	0.17	0.0748	0.42
51216		115	28	1	115	82	0.72	0.38	0.1671	0.93
51117	85	110	19	1	110	87	0.34	0.18	0.0790	0.44
51217		125	31	1	125	88	0.94	0.50	0.2190	1.2
51118	90	120	22	1	120	92	0.50	0.27	0.1159	0.6
51218		135	35	1.1	135	93	1.30	0.69	0.3033	1.69
51120	100	135	25	1	135	102	0.74	0.39	0.1723	0.96
51220		150	38	1.1	150	103	1.73	0.92	0.4038	2.25
51122	110	145	25	1	145	112	0.80	0.43	0.1867	1.04
51124	120	155	25	1	155	122	0.86	0.46	0.2010	1.12

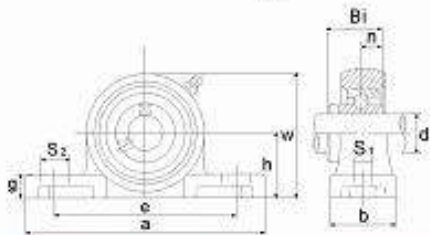
外球面轴承 / Ball bearing for units rings



轴承型号 Bearing No.	孔径 Bore Dia(d)		外形尺寸 (mm) Boundary dimension (mm)							Mass重量 (Kg) (参考) (refer)			
	in	mm	D	B	C	S	S1	G	ds	ZrO2	Si3N4	PLASTIC	440C
SSUC201-6	1/2									0.15	0.08	0.04	0.20
SSUC201		12								0.16	0.09	0.04	0.21
SSUC202-9	9/16		47	31	17	12.7	18.3	5	1/4-28 M6P0.75	0.15	0.08	0.03	0.19
SSUC202-10	5/8									0.15	0.08	0.03	0.19
SSUC202		15								0.14	0.07	0.03	0.18
SSUC203-11	11/16									0.14	0.07	0.03	0.18
SSUC203		17											
SSUC204-14	3/4		47	31	17	12.7	18.3	5	1/4-28 M6P0.75	0.12	0.07	0.03	0.16
SSUC204		20								0.12	0.07	0.03	0.16
SSUC205-13										0.17	0.09	0.04	0.22
SSUC205-14	7/8		52	34.1	17	14.3	19.3	5	1/4-28 M6P0.75	0.15	0.08	0.04	0.20
SSUC205-15	15/16									0.15	0.08	0.04	0.20
SSUC205-16	1									0.15	0.08	0.03	0.19
SSUC205		25								0.15	0.08	0.03	0.19
SSUC206-17	11/16		62	38.1	19	15.9	22.2	5	1/4-28 M6P0.75	0.25	0.14	0.06	0.33
SSUC206-18	11/8									0.24	0.13	0.06	0.31
SSUC206-19	13/16									0.25	0.13	0.06	0.32
SSUC206-20	11/4									0.25	0.13	0.06	0.31
SSUC206										0.25	0.13	0.06	0.31
SSUC207-20	11/4												
SSUC207-21	15/16		72	42.9	20	17.5	25.4	7	5/16-24 M8P1.0	0.38	0.21	0.09	0.50
SSUC207-22	13/8									0.36	0.19	0.08	0.47
SSUC207-23	17/16									0.34	0.18	0.06	0.44
SSUC207		35								0.36	0.19	0.09	0.47
SSUC208-24	11/2		80	49.2	22	19	30.2	8	5/16-24 M8P1.0	0.51	0.27	0.12	0.66
SSUC208-25	19/16									0.48	0.26	0.11	0.63
SSUC208		40								0.47	0.25	0.11	0.61
SSUC209-26	15/8									0.60	0.32	0.14	0.78
SSUC209-27	111/16		85	49.2	22	19	30.2	8	5/16-24 M8P1.0	0.57	0.30	0.13	0.74
SSUC209-28	13/4									0.54	0.29	0.13	0.70
SSUC209		45								0.52	0.28	0.12	0.68
SSUC210-29	113/16												
SSUC210-30	17/8		90	51.8	24	19	32.6	10	3/8-24 M10P1.25	0.65	0.35	0.15	0.85
SSUC210-31	115/16									0.64	0.34	0.15	0.83
SSUC210-32	2									0.60	0.32	0.14	0.78
SSUC210		50								0.59	0.32	0.14	0.77
SSUC211-32	2									1.04	0.55	0.24	1.35
SSUC211-33	21/16		100	55.6	25	22.4	33.4	10	3/8-24 M10P1.25	0.95	0.51	0.22	1.24
SSUC211-34	11/8									0.85	0.45	0.20	1.10
SSUC211-35	23/16									0.92	0.49	0.21	1.19
SSUC211		55								0.82	0.44	0.19	1.07
SSUC212-36	21/4		110	65.1	27	25.4	39.7	10	3/8-24 M10P1.25	1.27	0.68	0.30	1.66
SSUC212-37	25/8									1.19	0.64	0.28	1.55
SSUC212-38	23/8									1.15	0.62	0.27	1.50
SSUC212-39	27/16									1.10	0.59	0.26	1.43
SSUC212		60								1.17	0.62	0.27	1.52

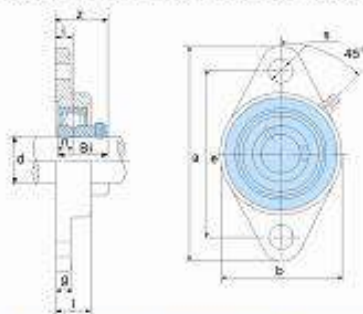
外球面轴承座 / Housing for type

立式座 Pillow block type



型号 Unit No	轴径 Shaft Dia		外形尺寸 Dimensions (mm)										螺栓 Bolt		重量 wight (kg)	
	d		h	a	e	b	S ₁	S ₂	g	w	Bi	n	in	mm	Stainless (SUS)	Plastic (PBT)
	(in)	(mm)														
P204	3/4	20	33.3	127	95	38	13	19	14	65	31	12.7	3/8	M10	0.65	0.12
P205	7/8 1	25	36.5	140	105	38	13	19	15	70	34.0	14.3	3/8	M10	0.79	0.14
P206	1-1/8 1-3/16 1-1/4 S	30	42.9	165	121	48	17	21	16	83	38.1	15.9	1/2	M14	1.30	0.23
P207	1-1/4 1-3/8 1-7/16	35	47.6	167	127	48	17	21	17	94	42.9	17.5	1/2	M14	1.60	0.29
P208	1-1/2	40	49.2	184	137	54	17	21	18	100	49.2	19	1/2	M14	2.00	0.36
P209	1-5/8 1-11/16 1-3/4	45	54	190	146	54	17	22	20	108	49.2	19	1/2	M14	2.30	0.41
P210	1-7/8 1-15/16 2S	50	57.2	206	159	60	20	25	21	114	51.6	19	5/8	M16	2.70	0.48
P211	2-1/8 2-3/16	55	63.5	219	171	60	20	25	22	126	55.6	22.2	5/8	M16	3.30	0.59
P212	2-1/4 2-3/8 2-7/16	60	69.8	241	184	70	20	25	25	138	65.1	25.4	5/8	M16	4.70	0.84

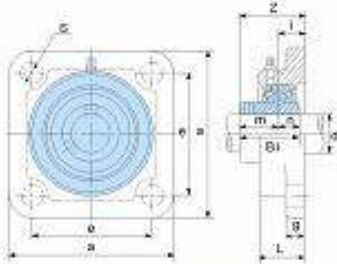
菱形座 Rhombic-Flanged type



型号 Unit No	轴径 Shaft Dia		外形尺寸 Dimensions (mm)										螺栓 Bolt		重量 wight (kg)	
	d		a	e	i	g	l	s	z	Bi	n	m	in	mm	Stainless (SUS)	Plastic (PBT)
	(in)	(mm)														
F204	3/4	20	113	90	15	11	26.5	12	33.3	31	12.7	18.3	3/8	M10	0.45	0.08
F205	7/8 1	25	130	99	16	13	27.5	12	35.7	34.0	14.3	19.7	3/8	M10	0.63	0.11
F206	1-1/8 1-3/16 1-1/4 S	30	148	117	18	13	31	12	40.2	38.1	15.9	22.2	3/8	M14	0.85	0.15
F207	1-1/4 1-3/8 1-7/16	35	161	130	19	14	32.5	16	44.4	42.9	17.5	25.4	1/2	M14	1.2	0.22
F208	1-1/2	40	175	144	21	14	35	16	51.2	49.2	19.0	30.2	1/2	M14	1.6	0.29
F209	1-5/8 1-11/16 1-3/4	45	188	148	22	15	36.5	16	52.2	49.2	19.0	30.2	1/2	M14	1.9	0.34
F210	1-7/8 1-15/16 2S	50	197	157	22	15	37	19	54.6	51.6	19.0	32.6	1/2	M16	2.3	0.41
F211	2-1/8 2-3/16	55	224	184	25	16	43	23	58.6	55.6	22.2	33.4	5/8	M16	3.3	0.59
F212	2-1/4 2-3/8 2-7/16	60	250	202	29	16	48	23	68.7	65.1	25.4	39.7	3/4	M18	4.3	0.77

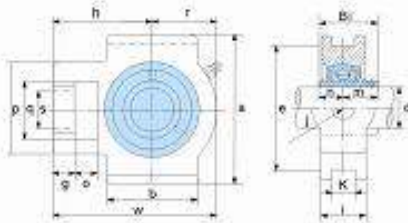
外球面轴承座/Housing for type

方式座 Square-flanged type



型号 Unit No	轴径 Shaft Dia d		外形尺寸 Dimensions (mm)										螺栓 Bolt		重量 wight (kg)	
	(in)	(mm)	a	e	i	g	l	s	z	Bi	n	m	in	mm	Stainless304	PlasticPBT
F204	3/4	20	86	64	15	11	26.5	12	33.3	31.0	12.7	18.3	3/8	M10	0.58	0.10
F205	7/8 1	25	95	70	16	13	27.5	12	35.7	34.0	14.3	19.7	3/8	M10	0.83	0.15
F206	1-1/8 1-3/16 1-1/4S	30	106	83	18	13	31	12	40.2	38.1	15.9	22.2	1/2	M14	1.1	0.20
F207	1-1/4 1-3/8 1-7/16	35	117	92	19	15	32.5	14	44.4	42.9	17.5	25.4	1/2	M14	1.6	0.29
F208	1-1/2	40	130	102	21	15	35	16	51.2	49.2	19.0	30.2	1/2	M14	1.9	0.34
F209	1-5/8 1-11/16 1-3/4	45	137	105	22	16	36.5	16	52.2	49.2	19.0	30.2	1/2	M14	2.4	0.43
F210	1-7/8 1-15/16 2S	50	143	111	22	16	37	16	54.6	51.6	19.0	32.6	5/8	M16	2.6	0.47
F211	2-1/8 2-3/16	55	162	130	25	18	43	19	58.4	55.6	22.2	33.4	5/8	M16	3.7	0.66
F212	2-1/4 2-3/8 2-7/16	60	175	143	28	18	48	19	68.7	65.1	25.4	39.7	5/8	M16	4.3	0.77

滑块座 Take-up type



型号 Unit No	轴径 Shaft Dia d		外形尺寸 Dimensions (mm)													螺栓 Bolt		重量 wight (kg)			
	(in)	(mm)	o	g	p	q	s	b	k	e	a	w	j	i	r	h	Bi	n	m	Stainless304	PlasticPBT
T204	3/4	20	16	10	51	32	19	51	12	76	89	94	32	21	33	61	31	12.7	18.3	0.65	0.12
T205	7/8 1	25	16	10	51	32	19	51	12	76	89	97	32	24	35	62	34.1	14.3	19.8	0.79	0.14
T206	1-1/8 1-3/16 1-1/4S	30	16	10	56	37	22	57	12	89	102	113	37	26	43	70	38.1	15.9	22.2	1.30	0.23
T207	1-1/4 1-3/8 1-7/16	35	16	13	64	37	22	64	12	89	102	129	37	30	51	78	42.9	17.5	25.4	1.60	0.29
T208	1-1/2	40	19	16	83	49	29	83	16	102	114	144	49	33	56	88	49.2	19.0	30.2	2.00	0.36
T209	1-5/8 1-11/16 1-3/4	45	19	16	83	49	29	83	16	102	117	144	49	35	57	87	49.2	19.0	30.2	2.30	0.41
T210	1-7/8 1-15/16 2S	50	19	16	83	49	29	86	16	102	117	149	49	37	59	90	51.6	19.0	32.6	2.70	0.48
T211	2-1/8 2-3/16	55	25	19	102	64	35	95	22	130	146	171	64	38	65	106	55.6	22.2	33.4	3.30	0.59
T212	2-1/4 2-3/8 2-7/16	60	32	19	102	64	35	102	22	130	146	194	64	42	84	119	65.1	25.4	39.7	4.70	0.84

稀土陶瓷材料性能表 / Properties comparison of ceramic material

性能 properties	单位符号 Unit	碳化硼B4C	氧化铝 99Al2O3	增韧氧化铝 ZTA-20%	氧化锆 ZrO2	氮化硅 Si3N4	碳化硅 SiC
密度 ρ Density	g/cm ³	2.4-2.51	3.7-3.99	5.5	6	3.2	3.2
硬度 HV Hardness	Kg/mm	2700-3200	2300-2700	1470-1500	1300-1500	1700-2700	2350-2450
抗弯强度 σ Flexural strength	MPa	350-400	300-400	700	1000-1500	900	450-800
抗压强度 Indentation strength	MPa	1800-2500	2800-3500	2000	2000	3500	2250-3000
断裂韧性 Impact strength	Mpa · m ^{-3/2}	6	2-4	5-6	11	7	4-5
韦伯模数 Weber modulus	GPa		> 7	> 10	> 15	> 15	> 6
弹性模数 E Modulus of elasticity	GPa		407	260	210	320	410
泊松比 Poisson ratio			0.2	0.23	0.3	0.26	0.16
热胀系数 α Coef. of expansion	× 10 ⁻⁶ /°C	4.5	6.5-8.6	9.4	10.5	3.2	4.3
热冲击性 Heat impact	ΔT °C		200	470	250	500	350
电阻 Resistivity	Ω/cm ²	0.3-0.8	10 ¹⁴ -10 ¹⁵	> 10 ¹⁶	> 10 ¹⁷	> 10 ¹⁸	100-2

氧化锆全陶瓷轴承的耐腐蚀性 / Anti-corrosion properties of ZrO2 All-ceramic Bearing

介质 chemical environment	分子式 molecular formula	含量 contents %	温度 temperature	耐腐蚀性 Anti-corrosion property
醋酸	CH ₃ COOH	80	沸腾 boiling	优秀 exeelent
醋酸/醋酸酐	CH ₃ COOH + CH ₃ CO	50/50	沸腾 boiling	优秀 exeelent
水+氯化钠	H ₂ O + NaCl		沸腾 boiling	优秀 exeelent
碳酸	H ₂ CO ₃		沸腾 boiling	优秀 exeelent
铜	Cu		1400°C	优秀 exeelent
食物酸 Food Acid			沸腾 boiling	优秀 exeelent
果汁 fruit juice			沸腾 boiling	优秀 exeelent
盐酸	HCl	35	25°C	良好 good
盐酸+氧化铁	HCl + FeCl ₂		沸腾 boiling	良好 good
氢氟酸	HF		25°C	不推荐 none resistant
硝酸	HNO ₃	83	25°C	良好 good
硝酸+盐酸	HNO ₃ + HCl	80 + 20	沸腾 boiling	良好 good
磷酸	H ₃ PO ₄	85	25°C	优秀 exeelent
氢氧化钾	KOH		25°C	优秀 exeelent
碳酸钠+硫酸	Na ₂ CO ₃ + H ₂ SO ₄	18/20	925°C	优秀 exeelent
氢氧化钠	NaOH	50	沸腾 boiling	优秀 exeelent
硫酸	H ₂ SO ₄	20	25°C	优秀 exeelent
硫酸	H ₂ SO ₄	98	50°C	良好 good
铝	Al	100	700°C	优秀 exeelent
锌	Zn	100	500°C	良好 good