

沃科为全球工业提供优质的零部件
Voke for global industry to provide quality parts

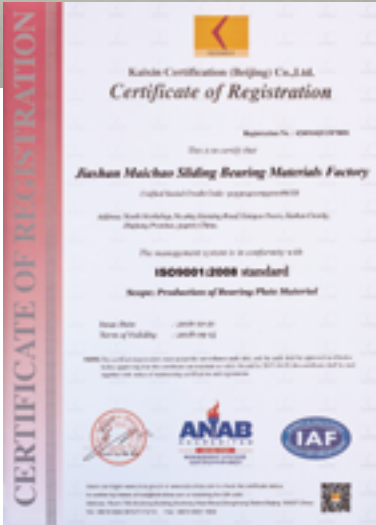


嘉善沃科汽车部件有限公司
JIASHAN VOKE AUTO PARTS CO., LTD.

JDB 固体镶嵌自润滑轴承



JIASHAN VOKE AUTO PARTS



COMPANY PROFILE

公司简介

嘉善沃科汽车部件有限公司是一家研究和生产各种自润滑轴承、无油轴承、滑动轴承等系列产品的专业厂家。公司拥有专业化的团队，先进齐全的设备，科学完善的管理，产品销售遍布全球各地，深受广大国内外客户的信任与好评。

公司主要产品有：JDB系列自润滑轴承、SF系列无油轴承、JF系列双金属滑动轴承、FB系列单金属滑动轴承、FZ系列钢球保持架、垫片、滑板、轴瓦等十多种系列，上万种规格。产品质量与性能均已达到国内领先水平，广泛配套于各种机械设备的转动和滑动部位。

我们不断致力于新产品和新领域的开发和推广，为客户提供有价值的产品，用心打造完美的品质，更好的回报客户。我们始终本着：以信为本、以质取胜、开拓创新、做强做大的宗旨目标，欢迎广大客户莅临我公司参观指导，一起携手共创美好未来！

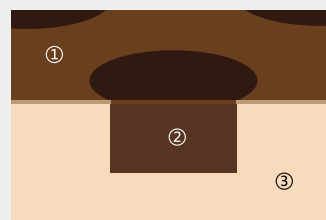
JIASHAN VOKE AUTO PARTS CO., LTD., specializes in research and production of a variety of self-lubricating bearings, oil-free bearings, sliding bearings. The company has professional teams, advanced equipments, scientific management. Products are sold throughout the world and popular by the domestic and overseas customers.

Main products are: JDB series self-lubricating bearings, SF, oil-free bearings, JF series bimetal sliding bearing, FB series single metal sliding bearings, FZ series steel ball cage, gaskets, skateboard, bearings, dozens of series, thousands of specifications. Products have taken lead in quality and performance domestically and widely used as a complete set of rotating and sliding parts in all kinds of mechanical equipments.

We are constantly committed to new products and new areas of development and promotion, to provide customers with valuable products, build perfect quality attentively, high returns .We are always in line with faith, quality, innovation, and pursue a big goals, welcome customers to visit our company for guidance, to join hands in creating a better future together!

JDB 固体镶嵌自润滑轴承 JDB Solid Self-Lubricating Inlaid Bearing

材料组织 Material Structure



1. 固体润滑膜
Solid lubricant film
2. 固体润滑剂
Solid lubricant plug
3. 铜合金基体
Bronze backing

结构特性 Structure Characteristics

铜合金镶嵌式固体润滑剂自润滑轴承，结合了铜合金的耐磨性及固体润滑剂的自润滑性能，使其在使用过程中无需加油维护。产品被广泛应用于高载、间歇性或摇摆运动，如汽车生产流水线、水轮机、水库工作事故门、塑胶机械、冲床周边设备等。根据使用的工作况，可以提供各种类型的铜合金。

This bearing is a combination of wear resistance and self-lubricating properties of solid copper alloy body of lubricants to use in the process without refueling maintenance. Products are widely used in high load, intermittent or oscillating motion, such as automotive products line, water wheels machine, a reservoir / incident doors, plastic machinery, punch peripherals. Depending on the conditions, the material can be provided with various types of copper alloy.

产品应用 Application

注塑机模架、汽车模具、工程机械、液压油缸、大型齿轮箱、冶金连铸机、列车支架、轧钢设备、矿山机械、船舶、气轮机、吊车支撑、食品机械、水轮机轴承等

Injection molding machine mold, auto mold, engineering machinery, hydraulic cylinders, large gear boxes, metallurgy continuous casting machine, train bracket, steel rolling equipment, mining machinery, shipbuilding, gas turbines, crane support, food machinery, turbine bearings... etc

材料特点 Material Properties

- 可以长期使用而无需维护；
 - 设计用于很高的静承载和动承载；
 - 具有很低的且平稳的摩擦系数，无“粘着”现象；
 - 具有耐粉尘、耐腐蚀、耐冲击和耐边缘负载能力；
 - 金属基材具有很好的吸震能力；
 - 能够在很宽的温度范围内使用；
 - 适合于往复、旋转和摆动等启动频繁又难以形成油膜の場合；
 - 具有极低的磨损率，使用寿命长。
-
- Allows maintenance-free and long-life operation;
 - Suitable for high static and dynamic loads;
 - With low and smoothly coefficient of friction and without stick-slip effects;
 - Suitable for dirty, corrosion, impact load and edge loading;
 - The base material provided a good shock-absorbing capacity;
 - Can be used over a large temperature range;
 - Suitable for reciprocating, rotating and oscillating movement with start frequency and difficulty to form oil film occasions;
 - With low wear rate and long life service.

JDB 固体镶嵌自润滑轴承



JDB Solid Self-Lubricating Inlaid Bearing

实际运用中根据使用工况的不同，基体可以采用不同牌号的合金，产品范围包括：JDB-1、JDB-2、JDB-3、JDB-4、JDB-5各系列产品。

According to the different working conditions, different type of alloy can be chosen, product range includes JDB-1、JDB-2、JDB-3、JDB-4、JDB-5.

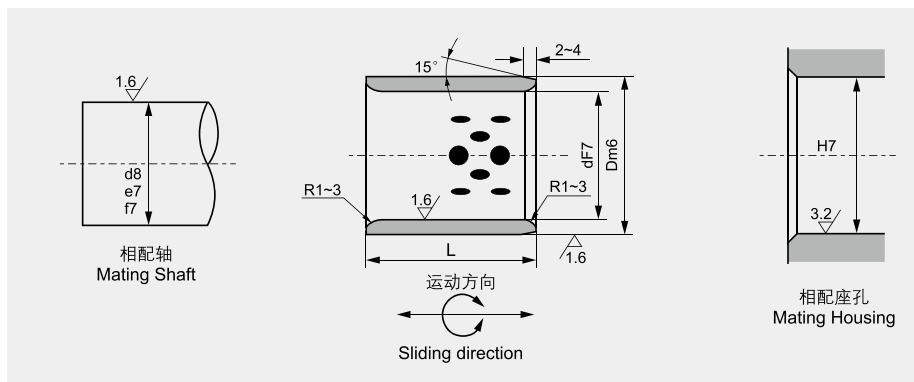
代号 Grade	JDB-1	JDB-2	JDB-3	JDB-4	JDB-5	
除了目录中显示的标准产品外，还可以提供非标产品或根据客户要求订购。 We can also develop according to customers special request while out of this table.						
材料 Material	CuZn25Al6Mn4Fe3	CuSn5Pb5Zn5	CuZn25Al5Mn4Fe3	ZCuAl9Fe4Ni4Mn2	铸铁/HT250 250 Cast iron	
密度 g/cm ³ Density	8.0	8.7	-	8.0	6.8	
硬度 HB Hardness	>210	>70	>80~100	>210	>160	
抗拉强度N/mm ² Tensile strength	>750	>200	-	>750	>150	
屈服强度N/mm ² Yield strength	>450	>90	-	>450	-	
延伸率% Elongation	>8	>15	-	>12	-	
线胀系数 10 ⁻³ /℃ Coefficient of linear expansion	1.9	1.8	1.2	-	-	
导热系数W/(m.k) Heat-conducting Coefficient	38~55	46~63	-	-	-	
弹性系数KN/mm ² Flexibility Coefficient	100~140	85~115	-	-	-	
使用温度 ℃ Temp. Limits	-40~+300	-40~+250	1.0	1.2	1	
最大动载N/mm ² Max. Dynamic Load	120	60	1.5	-	0.8	
最大线速度 m/s Max.speed	干摩擦 Dry Lubrication	0.4	0.3	3.25	-	1.55
	油润滑 Oil Lubrication	1.0	0.85	0.12~0.16	<0.16	0.13~0.2
最大PV值 Max.PV N/mm ² *m/s	干摩擦 Dry Lubrication	1.5	1.0	0.03~0.08	-	0.04~0.08
	油润滑 Oil Lubrication	3.25	1.65	-	-	-
摩擦系数 Friction	干摩擦 Dry Lubrication	0.12~0.16	0.12~0.16	-	-	-
	油润滑 Oil Lubrication	0.03~0.08	0.03~0.08	-	-	-

固体润滑剂 Solid Lubricants

固体润滑剂 Lubricant	特性 Features	典型用途 Typical application
高纯石墨+添加剂 Graphite+add 	很好的耐磨性和化学稳定性，使用温度 < 400℃ Good wear performance and chemical stability, temperature limit 400℃	应用于一般机械，在大气中使用 Suit for general machines and under atmosphere
PTFE+添加剂 PTFE+add 	极低的摩擦系数和很好的水润滑性，使用温度 < 300℃ Lowest friction coefficient and good water lubrication, temperature limit 300℃	应用于水、海水润滑，如船舶 Suit for water and seawater lubricant, such as ship

JDB 固体镶嵌自润滑轴承标准公制尺寸

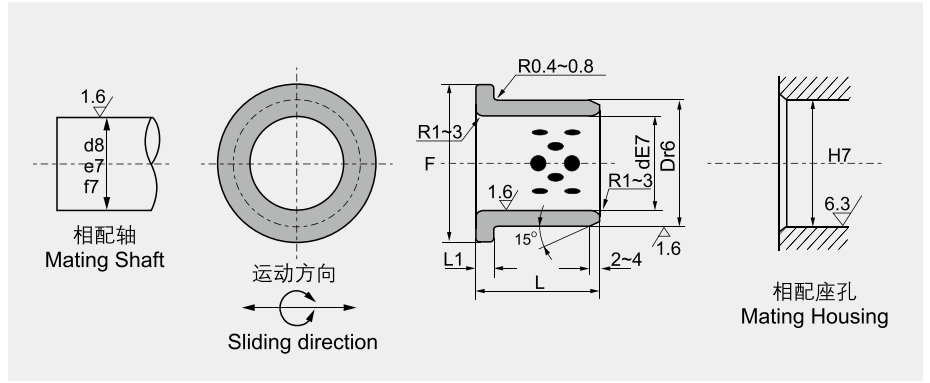
JDB Solid Self-Lubricating Inlaid Bearing Standard Metric Size



单位Unit: mm

d	D	dF7	Dm6	长度L ^{-0.10} _{-0.30}																		
				10	12	15	16	20	25	30	35	40	50	60	70	80	100	120	130	140	150	
15	21	15	21	152110	152112	152115	152116	152120	152125	152130	152135											
16	22	16 ^{+0.034} _{+0.016}	22	162210	162212	162215	162216	162220	162225	162230	162235	162240										
18	24	18	24 ^{+0.021} _{+0.008}	182410	182412	182415	182416	182420	182425	182430	182435	182440										
20	28	20	28	202810	202812	202815	202816	202820	202825	202830	202835	202840	202850									
22	32	22 ^{+0.041} _{+0.020}	32		223212	223215	223216	223220	223225	223230	223235	223240	223250									
25	33	25 ^{+0.041} _{+0.020}	33		253312	253315	253316	253320	253325	253330	253335	253340	253350	253360								
30	38	30	38		303812	303815	303816	303820	303825	303830	303835	303840	303850	303860								
35	45	35	45 ^{+0.025} _{+0.009}					354520	354525	354530	354535	354540	354550	354560	354570							
40	50	40 ^{+0.050} _{+0.025}	50					405020	405025	405030	405035	405040	405050	405060	405070	405080						
45	55	45	55							455530	455535	455540	455550	455560	455570	455580						
50	60	50	60							506030	506035	506040	506050	506060	506070	506080						
50	62	50 ^{+0.050} _{+0.025}	62							506230	506235	506240	506250	506260	506270							
50	65	50	65							506530	506535	506540	506550	506560	506570	506580	5065100					
55	70	55	70							557030	557035	557040	557050	557060	557070	557080	5570100					
60	74	60	75 ^{+0.030} _{+0.011}							607430	607435	607440	607450	607460	607470	607480	6074100					
60	75	60	75							607530	607535	607540	607550	607560	607570	607580	6075100					
63	75	63	75								637535	637540	637550	637560	637570	637580	6375100					
65	80	65	80								658035	658040	658050	658060	658070	658080	6580100					
70	85	70 ^{+0.050} _{+0.030}	85								708535	708540	708550	708560	708570	708580	7085100					
70	90	70	90								709035	709040	709050	709060	709070	709080	7090100					
75	90	75	90									759040	759050	759060	759070	759080	7590100					
75	95	75	95									759540	759550	759560	759570	759580	7595100	7595120				
80	96	80	96 ^{+0.035} _{+0.013}									809640	809650	809660	809670	809680	8096100	8096120	8096130			
80	100	80	100									8010040	8010050	8010060	8010070	8010080	80100100	80100120	80100130	80100140		
90	110	90	110									9011050	9011060	9011070	9011080	90110100	90110120	90110130	90110140			
100	120	100 ^{+0.071} _{+0.036}	120										10012060	10012070	10012080	100120100	100120120	100120130	100120140			
110	130	110	130												11013080	110130100	110130120	110130130	110130140			
120	140	120	140												12014080	120140100	120140120	120140130	120140140			
125	145	125	145														125145100	125145120	125145130	125145140		
130	150	130	150 ^{+0.040} _{+0.015}														130150100	130150120	130150130	130150140	130150150	
140	160	140 ^{+0.083} _{+0.043}	160															140160100	140160120	140160130	140160140	140160150
150	170	150	170															150170100	150170120	150170130	150170140	150170150
160	180	160	180															160180100	160180120	160180130	160180140	160180150

JFB 固体镶嵌自润滑翻边轴承标准公制尺寸
 JFB Solid Self-Lubricating Inlaid Flange Bearing Standard Metric Size



单位Unit: mm

d	D	d E7	Dr6	F	L ₁	L														
						15	20	25	30	35	40	50	60	80	100					
10	14	10	^{+0.040} / _{+0.025}	14	22	2	1015	1020												
12	18	12		18	25		1215	1220												
13	19	13		19	26		1315	1320												
14	20	14	^{+0.050} / _{+0.032}	20	27	3	1415	1420	1425											
15	21	15		21	28		1515	1520	1525	1530										
16	22	16		22	29		1615	1620	1625	1630										
20	30	20		30	40			2020	2025	2030	2035									
25	35	25	^{+0.061} / _{+0.040}	35	45			2520	2525	2530	2535	2540								
30	40	30		40	50			3020	3025	3030	3035	3040	3050							
35	45	35		45	60					3525	3530	3535	3540	3550						
40	50	40		50	65	5				4030	4035	4040	4050							
45	55	45	^{+0.075} / _{+0.050}	55	70					4530	4535	4540	4550	4560						
50	60	50		60	75						5035	5040	5050	5060						
55	65	55		65	80							5540	5550	5560						
60	75	60		75	90							6040	6050	6060	6080					
70	85	70	^{+0.090} / _{+0.060}	85	105	7.5							7050	7060	7080					
75	90	75		90	110								7550	7560	7580	75100				
80	100	80		100	120									8060	8080	80100				
90	110	90		110	130									9060	9080	90100				
100	120	100	^{+0.107} / _{+0.072}	120	150	10								10060	10080	100100				
120	140	120		140	170									12060	12080	120100				



嘉善沃科汽车部件有限公司

地址: 浙江省嘉善县干窑镇窑兴路102号一楼

电话: 0573-84615338

传真: 0573-84615338

网址: www.zjvoke.com

邮箱: info@zjvoke.com

JIASHAN VOKE AUTO PARTS CO., LTD.

Add: No. 102, Yaoxing Road, Ganyao,

Jiashan, Zhejiang, China

Tel: 0573-84615338

Fax: 0573-84615338

Website: www.zjvoke.com

E-mail: info@zjvoke.com

