Sliding Bearing Specialist

FANGMU

嘉善方木轴承有限公司

FangMu Hardware Co.,Ltd.

FANGMU BUSHING&WEAR PLATE

Sliding Bearing Specialist

FANGMU

公司简介
INTRODUCTION

嘉善方木轴承有限公司是一家专业从事各类无油轴承，滑块和机械零配件的中小型企业，公司集研发、生产与销售为一体，产品远销德国，意大利，美国，俄罗斯，澳大利亚以及中东、东南亚国家和地区，在公司几年来建设世界销售网的发展和实践中，吸取国内外同行的经验及理念，在非标件的研发与制造方面处于领先地位，公司始终坚信质量是企业的生命，创新是企业的动力，愿我们的产品与服务能为您效劳，选择方木就是选择专业与信赖！

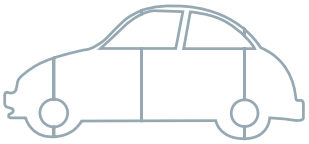
FangMu is specialized in all kinds of oiless bearings, sliding plates and mechanical spare parts of small and medium-sized enterprises.FangMu integrates research and development production and sales as one, the products are sold far to Germany, Italy and the United States, Russia, Australia, and the Middle East, Southeast Asian countries and regions,we are constructing our world sales net.
In the many years of development and practice, we learn of the experience and philosophy from domestic and international counterparts, now FangMu in the lead of non-standard parts of research and manufacturing.
FangMu always believe that quality is life, originality is power, wish our products and service can do for you.

FangMu at your side.

产品应用领域 Product Application

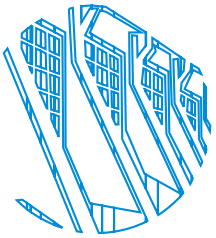
高温 High Temperature

◎ 钢铁厂
◎ 熔矿炉
◎ 干燥设备
◎ 烘烤炉
◎ 热控制器



汽车制造 Automobile

◎ 冲床模具
◎ 焊接组织
◎ 烤漆与干燥线
◎ 金属输送带
◎ 工具机



防水 Waperproof

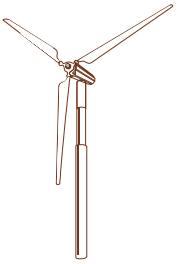
◎ 水坝闸门
◎ 沈水泵浦
◎ 流体电门结构
◎ 近海结构
◎ 船坞及淤泥机设备

船舶 Boat

◎ 甲板起重机
◎ 起锚机
◎ 舱口盖
◎ 方向舵臂
◎ 起重机械与吊环设备

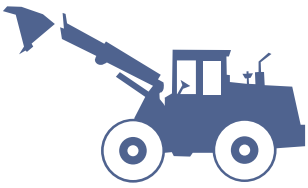
抗化学 Chemical Resistance

◎ 化学工厂
◎ 电镀设备
◎ 废水处理设备
◎ 染色机械
◎ 油与化学药品提炼设备



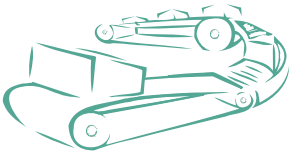
风力 Wind Power

◎ 风力发电
◎ 新能源



重工业 Heavy Industry

◎ 钢管工厂机械
◎ 轮胎与造纸厂
◎ 发电厂
◎ 模具射出机械之连接曲肘



建筑、采矿、装载 Construction

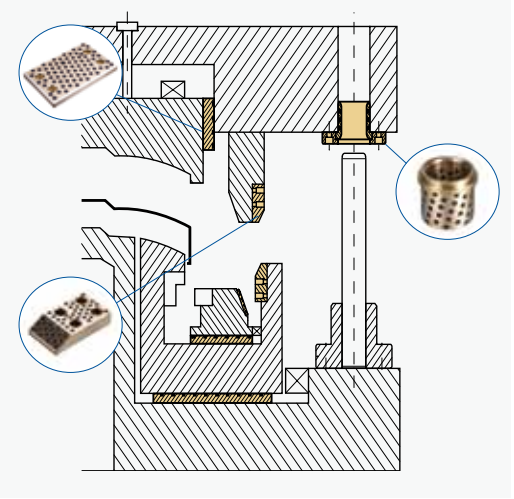
◎ 搅拌机、研磨机、粉碎机
◎ 建筑机械
◎ 采矿设备
◎ 连杆轴承
◎ 动力轴套

桥梁和升降轨 Bridge

◎ 桥梁轴承
◎ 梁、桥架、吊桥
◎ 核能相关反应器
◎ 蒸汽发生器

典型用途

※ 免维护、自润滑、无需加油。
※ 高承载、滑动面摩擦系数极低、抗磨损性能优越。
※ 使用温度–40℃ ~ +300℃。
※ 良好的抗化学抗腐蚀性能。
※ 特殊产品可按用户的图纸要求生产。
※ 硬度210–240HB，使用寿命比普通大至少一倍。



Advantages of MXZ500# Slide Elements:

※ Maintenance free
※ Wear resistant
※ Low frictional resistance
※ Resistant against temperatures up to approx. 300℃ (approx.572°F)
※ No impurity through discharge of lubrication
※ Environmentally friendly
※ Corrosion resistant
※ Insensitive to impact stress
※ Specially suited for oscillating slide motions
※ Stick, slip free sliding
※ Long life

重载低速无法加油的工况场合

※ 汽车模具滑动导向件—导套、滑块。
※ 重载、低速自润滑，如水坝工作、孤门支铰轴承、事故门轴承，水轮机轴承等。
※ 使用于高温场合，如钢铁厂、冶金设备，轧机、输送辊道、高温鼓风炉、烘干炉用轴承。
※ 汽机车工业、覆盖件冲压模、组装流水线、传送带等用轴承。
※ 其它工业用轴承、工程机械、注塑机、各种高精度模具等。
※ 化工机械、食品机械、造纸机械、纺织印染机械等需耐腐蚀耐水浸润场合。
※ 替代传统的铜套、滑块、无需加油润滑。

Typical Aplications:

※ Automotive industry-tool support, die
※ Injection molding-machines and tool
※ Mechanical machine construction
※ Steel and/or rolling mills
※ Machine building-and stone industry
※ Weir plants / ship building
※ Heavy duty machine industry
※ Welding engineering
※ Packaging industry
※ Lift and/or conveying engineering

JDB-1

Page 04

拉油槽轴承
Oil grooves bronze bearing

JDB-2

Page 05

镶嵌式固体润滑轴承
Solid-lubricant inlaid bearing

SF-1

Page 31

碳钢基自润滑轴承
Carbon Steel Self-lubricating bearing

SF-2

Page 41

碳钢基边界无铅自润滑轴承
Marginal Pb-free Self-lubricating bearing

JF

Page 45

双金属自润滑轴承
Bimetallic self-lubricating bearing

FB090

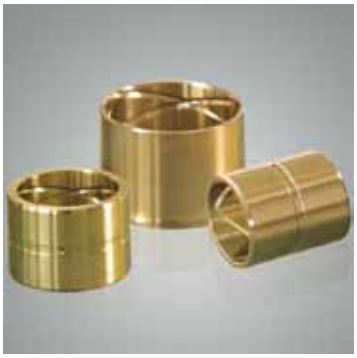
Page 50

单金属系列自润滑轴承
Mometallic self-lubricating Bearings

FU

Page 56

粉末冶金轴承
Sintered bearings

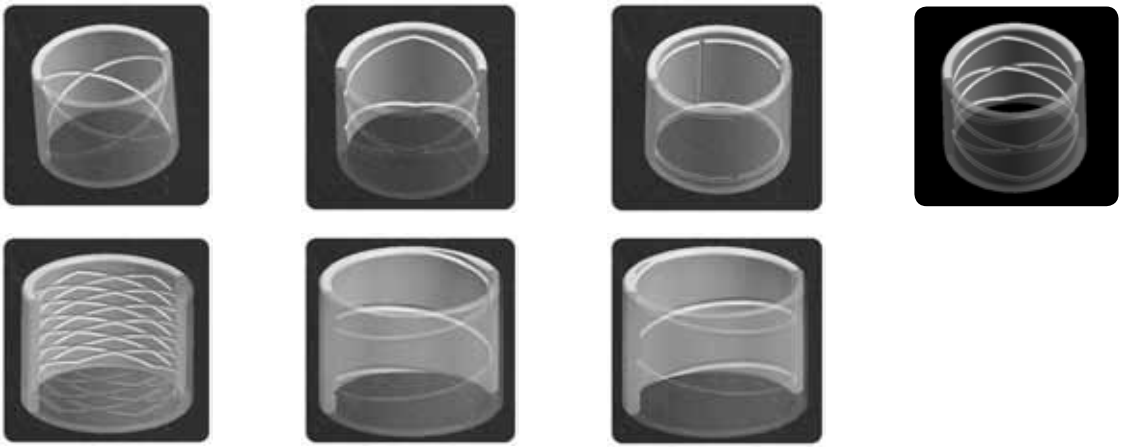


JDB 拉油槽轴承
Oil grooves bronze bearing

※材料表 Material Sheets

Swedish Standard SS	Norwegian Standard NS	British Standard BS 1400	German Standard DIN–Norm	American Standard UNS	CEN/ISO Standard ISO
SS 5204	NS16530	LG2	Rg5 *Rg7	UNS C83600	CuSn5Pb5Zn5
SS 5428	NS16306	PB103	CuSn6	C51900	CuSn6
SS 5443	NS16510	CT1 PB1	CuSn10	C92700	CuSn10
SS 5465	NS16508	PB2	CuSn12 CuSn12Pb s	UNS C90600	CuSn12
SS 5640	NS16540	LB2	CuPb10Sn *CuPb15Sn	UNS C93700	CuSn10Pb10
		AB1		UNS C95400	CuAl10Fe4
SS 5716–15	NS16570–15	AB 2	CuAl10Ni	UNS C95800	CuAl10Ni5Fe4
		G3	Cu Zn25 Al5		CuSn7Ni5Zn3
SS 6234		HTB3	Cu Zn25 Al5 (SoMs F75)	UNS 86300	CuZn25Al6Fe3Mn3
SS 5238	*NS16565	*HTB1	*Cu Zn34Al2Mn3 (SoMs F45)	*C86500	CuZn35Mn2AlFe
SS 5256	*NS16565	*HTB1	*Cu Zn35 Ni2 (SoMs F45)	*C86500	CuZn35Al1
		*CZ114	CuZn40Al2 (SoMs 58 Al2)	*C67400	

※油槽样式 Oil Groove



JDB 镶嵌式固体润滑轴承
Solid-lubricant inlaid bearing

该产品以高强度铜合金为基体，镶嵌特殊配方的固体润滑剂和润滑油，在摩擦过程中逐步释放润滑油和固体润滑剂。产品被广泛应用于注塑机，汽车模具、工程机械、食品机械、水轮机轴承等。

JDB Solid- lubricant inlaid bearing use high grade metal alloys as their base material, inlaid graphite and grease during the process of friction, it will release solidlubricant and lubricant oil automatically. The products are widely used in injection molding, automobile mold,engineering machine, food machinery and water turbines, etc.

※合金材料：Metal Material

型号 Type / 对应牌号 Corresponding brands	JDB–1	JDB–2	JDB–3	JDB–4	JDB–5
国际牌号 GB1776–87 China Brands GB1776–87	ZCuZn25 Al6Fe3Mn3	ZCuZn25 Al6Fe3Mn3	ZCuAl9Fe4 Ni4Mn2	GCr15	HT250
国际ISO1338 International ISO1338	GCuZn25 Al6Fe3Mn3	GCuZn25 Al6Fe3Mn3	GCuAl10 Fe3Ni5	B1	–
德国 DIN Germany DIN	G–CuZn25 Al5	G–CuZn25 Al5	G–CuAl10 Ni	100Cr6	–
日本JIS Japan JIS	HBsC4	HBsC4	AlBC3	SUJ2	FC250
美国 ASTM/UNS America ASTM/UNS	C86300	C86300	C95500	52100	Class40
英国标准（BS） England Standard	HTB2	HTB2	AB2	–	–

※技术参数：Technical Data

型号 Type / 性能指标 Performance index	JDB–1	JDB–2	JDB–3	JDB–4	JDB–5
最大动承载 P(N/mm^2) Max Move Load Capacity	100	150	50	200	15
最大线速度 V(m/min) Max Sliding Speed	15	10	20	5	15
最高PV值（N/mm^2·m/min） Max PV Value Limit	200	200	200	150	40
密度 ρ (g/cm^3) Density	8.0	8.0	7.6	7.8	7.3
抗拉强度（N/mm^2） Tensile Strength	> 750	> 780	> 500	> 1500	> 250
延伸率(%) Elongation	> 12	> 4	> 10	–	–
硬度(HB) Hardness	> 210	> 250	> 150	HRC > 55	> 160
最高使用温度℃ Max Working Temperature	300	300	400	300	400
摩擦系数 μ Friction coefficient	油润滑：0.03 Oil Lubrication:0.03			干摩擦：0.16 Dry Friction:0.16	

※材料合金化学成份：Alloy Chemical Compositions

化学元素 Chemical elements	JDB–1	JDB–2	JDB–3	JDB–4	JDB–5
Cu(%)	Rest	Rest	Rest	–	–
Sn(%)	–	–	–	–	–
Zn(%)	25	25	–	–	–
Ni(%)	–	–	4	–	–
Al(%)	6	6	9	–	–
Fe(%)	3	3	4	Rest	–
Mn(%)	3	3	2	0.20 ~ 0.40	–
Cr(%)	–	–	–	1.30 ~ 1.65	–
C(%)	–	–	–	0.95 ~ 1.05	–
Si(%)	–	–	–	0.15 ~ 0.35	–

※固体润滑剂：Solid Lubricants

固体润滑剂代号 Codes Of Solid Lubricants	SM01	SM02	SM03
主要成份 Main Compositions	石墨 Graphite	石墨+二硫化钼 Graphite+MoS2	聚四氟乙烯+石墨+石蜡 PTFE+Graphite+Olefin
特性 Features	很好的化学稳定性，使用温度＜250℃ Good chemical stability, temperature＜250℃	很好的耐磨性和化学稳定性，使用温度＜400℃ Good wear performance and chemical stability, temperature＜400℃	极低的摩擦系数和很好的水润滑性，使用温度范围–40 ~ 80℃ Lowest friction coefficient and good water lubrication,temperature Rang –40 ~ 80℃
适用场合 Application Place	一般用(大气) General(atmosphere)	高温、高载荷 High temperature high load capacity	海(水)用，高压用 Seawater use, high pressure use

镶嵌式固体润滑轴承的特性
The Advantages of The Solid-lubricant Inlaid Bushing

1、无给油可使用
Dry operation.

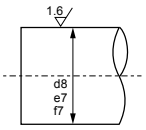
2、高载荷、低转速的情况，仍可发挥优越的性能
Can be Performed well with high load and low speed.

3、往返运动、摇摆运动、起动停止频繁等油膜形成困难的场所，仍可发挥优越的耐磨性
Rreciprocating motion, wagging motion, start and stop frequently are difficulty for keeping oil surface. It still may play advantageous of wear-resistance.

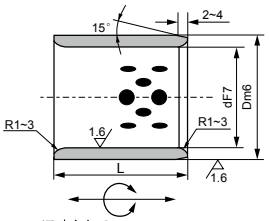
4、优越的耐药品性及耐蚀性
Excellent chemical resistance and low wear.

5、设计灵活、简单、方便，丰富的标准品，可配标准轴心使用
Flexible,simple,convenient and abundant designing of standard, can be choosed by standard axes.

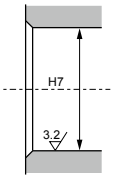
材质	高力黄铜 + 石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



相配轴
Mating Shaft



运动方向 Sliding direction



相配座孔
Mating Housing

单位unit:mm

IDF7 (内径)		ODm6 (外径)		L $^{-0.10}_{-0.30}$													
				8	10	12	15	16	20	25	30	35	40	50	60	70	80
8	+0.028 +0.013	12	+0.018 +0.007	081208	081210	081212	081215										
10		14		101408	101410	101412	101415		101420								
12	+0.034 +0.016	18	+0.021 +0.008		121810	121812	121815	121816	121820	121825	121830						
13		19			131910		131915	131916									
14		20			142010	142012	142015		142020	142025	142030						
15		21			152110	152112	152115	152116	152120	152125	152130						
16		22			162210	162212	162215	162216	162220	162225	162230	162235	162240				
18		24				182412	182415	182416	182420	182425	182430	182435	182440				
20	+0.041 +0.020	28			202810	202812	202815	202816	202820	202825	202830	202835	202840	202850			
22		32	+0.025 +0.009			223212	223215		223220	223225							
25		33				253312	253315	253316	253320	253325	253330	253335	253340	253350	253360		
30		38				303812	303815		303820	303825	303830	303835	303840	303850	303860		
35	+0.050 +0.025	45							354520	354525	354530	354535	354540	354550	354560		
40		50							405020	405025	405030	405035	405040	405050	405060	405070	405080
45		55	+0.030 +0.011								455530	455535	455540	455550	455560		
50		60									506030	506035	506040	506050	506060	506070	506080

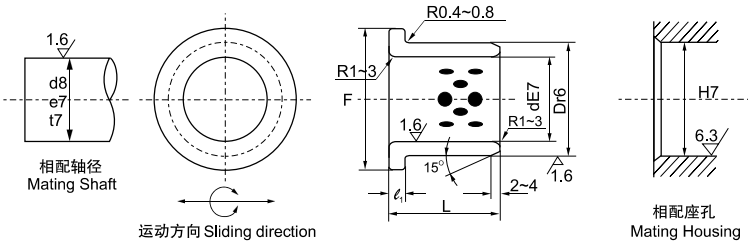
单位unit:mm

IDF7 (内径)		ODm6 (外径)		L -0.10 -0.30											
				30	35	40	50	60	70	80	100	120	130	140	150
50	+0.050 +0.025	62	+0.030 +0.011	506230	506235	506240	506250	506260	506270						
50		65		506530		506540	506550	506560	506570	506580	5065100				
55	+0.060 +0.030	70				557040	557050	557060	557070						
60		74		607430	607435	607440	607450	607460	607470	607480					
60		75		607530	607535	607540	607550	607560	607570	607580	6075100				
63		75						637560	637570	637580					
65		80					658050	658060	658070	658080					
70		85	+0.035 +0.013		708535	708540	708550	708560	708570	708580	7085100				
70		90					709050	709060	709070	709080					
75		90						759060	759070	759080	7590100				
75		95						759560	759570	759580	7595100				
80		96				809640	809650	809660	809670	809680	8096100	8096120			
80		100				8010040	8010050	8010060	8010070	8010080	80100100	80100120		80100140	
90	+0.071 +0.036	110		9011030			9011050	9011060	9011070	9011080	90110100	90110120			
100		120						10012060	10012070	10012080	100120100	100120120		100120140	
110		130	+0.040 +0.015							11013080	110130100	110130120			
120		140								12014080	120140100	120140120		120140140	
125	+0.083 +0.043	145									125145100	125145120			
130		150									130150100		130150130		
140		160									140160100			140160140	
150		170									150170100				150170150
160		180									160180100				160180150

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

JDB 自润翻边轴套
Oilless Flange Bushes

材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



单位unit:mm

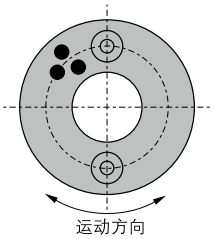
IDE7 (内径)		ODr6 (外径)		F	ℓ_1 −0.10	L $^{-0.10}_{-0.30}$									
						15	20	25	30	35	40	50	60	80	100
10	+0.040 +0.025	14	+0.034 +0.023	22	2	1015F	1020F								
12		18		25		1215F	1220F								
13		19		26		1315F	1320F								
14	+0.050 +0.032	20		27	3	1415F	1420F								
15		21	+0.041 +0.028	28		1515F	1520F	1525F	1530F						
16		22		29		1615F	1620F	1625F	1630F						
20		30		40		2015F	2020F	2025F	2030F		2040F				
25	+0.061 +0.040	35		45		2515F	2520F	2525F	2530F		2540F				
30		40		50			3020F	3025F	3030F	3035F	3040F	3050F			
31.5		40	+0.050 +0.034				3120F			3135F					
35		45		60	5		3520F		3530F		3540F	3550F			
40	+0.075 +0.050	50		65			4020F		4030F		4040F	4050F			
45		55		70					4530F		4540F	4550F	4560F		
50		60	+0.060 +0.041	75					5030F		5040F	5050F	5060F		
55		65		80							5540F		5560F		
60		75	+0.062 +0.043	90							6040F	6050F		6080F	
63	+0.090 +0.060	75		85	7.5									6367F	
70		85		105								7050F		7080F	
75		90	+0.073 +0.051	110									7560F		
80		100		120									8060F	8080F	80100F
90		110	+0.076 +0.054	130	10								9060F	9080F	
100	+0.107 +0.072	120		150										10080F	100100F
120		140	+0.088 +0.063	170										12080F	120100F

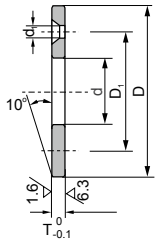
注：除以上规格尺寸外，可按客户图纸制造。

Note: In addition to the above specifications of size, manufactured according to customer drawings .

JTW 止推垫片
Oilless Thrust Washers

材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite





单位unit:mm

规格 Standard No.	d	D	T	螺栓 Bolt			
				D_1	数量 Q'ty	尺寸 size	d_1
JTW-10	10.2	30	3	---	---	---	---
JTW-12	12.2	40		28	2	M3	3.5
JTW-13	13.2						
JTW-14	14.2						
JTW-15	15.2	50		35			
JTW-16	16.2						
JTW-16N				---	---	---	---
JTW-18	18.2			35	2	M3	3.5
JTW-20	20.2		5			M5	6
JTW-20N				---	---	---	---
JTW-25	25.2	55		40	2	M5	6
JTW-25N				---	---	---	---
JTW-30	30.2	60		45	2	M5	6
JTW-35	35.2	70		50			
JTW-40	40.2	80	7	60		M6	7
JTW-45	45.3	90		67.5			
JTW-50	50.3	100	8	75	4	M8	9
JTW-55	55.3	110		85			
JTW-60	60.3	120		90			
JTW-65	65.3	125		95			
JTW-70	70.3	130	10	100			
JTW-75	75.3	140		110			
JTW-80	80.3	150		120			
JTW-90	90.5	170		140		M10	11
JTW-100	100.5	190		160			
JTW-120	120.5	200		175			

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

JDB-4 钢基固体润滑轴承
Steel Solid-Lubricant-Embedded Bearings

※ 应用特点 Application

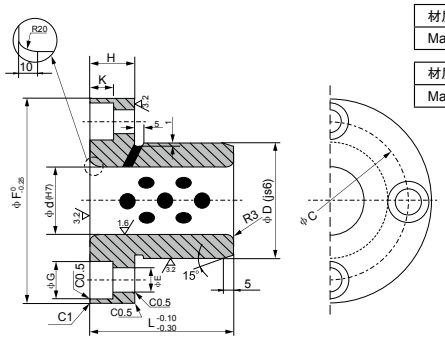
JDB-4以钢基镶嵌轴承，是加强型产品，具有较高的抗压性能，在工作时能够排出润滑颗粒，使轴与套之间产生一层隔膜，起到了比单体油润滑更抗咬合的优点，在起重机械的支撑部位特别适应。例如：卷场机支撑，吊车支撑，但不宜在水中或酸碱场合使用。

JDB-4 is made of reinforced material-steel Gcr15 with solid lubricant embedded in it. Its good performance of high crash strength can be shown in supporting position of hoisting Machine. e.g. support part of windlass and crane. It can not use in water or in acid/alkali condition.

※ 技术参数 Technical Data

代号 Grade		JDB-4
材料 Materiai		钢+石墨 GCr15+Graphite
最大承载 Max. Load	静承载 Static	200N/mm^2
	动承载 Dynamic	100N/mm^2
最大线速度 Max. Speed	干 Dry	0.6m/s
	润滑 Lubrication	1.2m/s
最高PV值(润滑) Max. PV (Lubrication)		1.2N/mm^2·m/s
屈服强度 Yeild Strength		400N/mm^2
抗拉强度 Tensile Strength		300N/mm^2
合金硬度 Hardness		HRC 50~60
延伸率 Elongation %		15%
最高使用温度 Temp. Limit ℃		-100 ℃~+300 ℃
摩擦系数 Friction Coefficient μ		0.05~0.20mm
润滑方式 Solid Lubricant		固体润滑剂+油槽 Solid Lubricant+Oiling Grooves
公差配合 Mating Tolerance		装配座孔H7相配轴径e7或者f7 Pilot Saddle Bore (H7) in Collaboration With Shaft Diameter (e7 or f7)

HGB250 自润导向套
Oilless Guide Bushes



材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite

材质	FC铸铁＋石墨
Material	HT250#+ Graphite

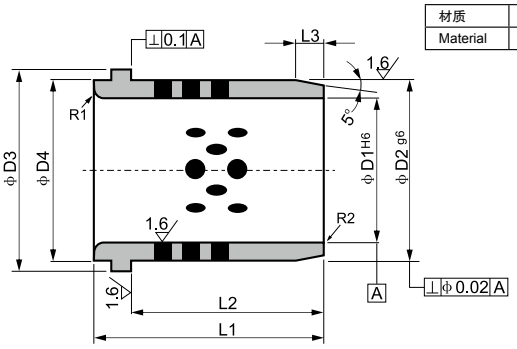
单位unit:mm

项目	代号	尺寸	ΦF	ΦD	Φd	H	L	ΦC	ΦE	ΦG	K
1	30	90×50×30×50	90	50	30	20	50	70	11	17.5	10.8
2	40	100×60×40×65	100	60	40	20	65	80	11	17.5	10.8
3	50	125×75×50×80	125	75	50	20	80	100	11	17.5	10.8
4	60	135×85×60×100	135	85	60	20	100	110	11	17.5	10.8
5	80	170×110×80×130	170	110	80	25	130	140	14	20	13
6	100	190×130×100×160	190	130	100	25	160	160	14	20	13

注：除以上规格尺寸外，可按客户图纸制造。

Note: In addition to the above specifications of size, manufactured according to customer drawings .

JNA 自润导向套
Oilless Guide Bushes

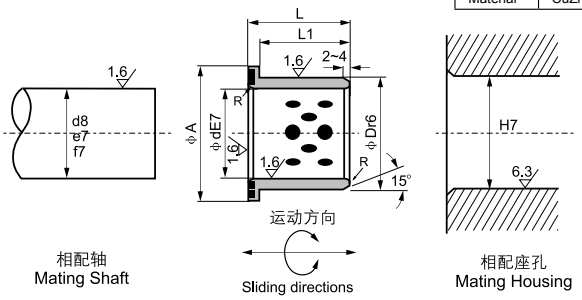


材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite

单位unit:mm

规格 Standard No.	D1	H6	D2	g6	D3	D4	L1	L2	L3	R1
JNA32×50	32	+0.016 0	40	-0.009	50	40	50	40	4	3
JNA40×63	40		50	-0.025	63	50	63	50	5	3
JNA50×71	50		63	-0.010	71	63	71	56	6	5
JNA63×80	63	+0.019 0	80	-0.029	90	80	80	63	8	6
JNA80×100	80		100	-0.012 -0.034	112	100	100	80	10	8
JNA100×125	100	+0.022 0	125	-0.014	140	125	125	106	12	10
JNA115×140	115		140	-0.039	155	140	140	120	12	10

JDBB 自润翻边轴套
Oilless Flange Bushes



材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite

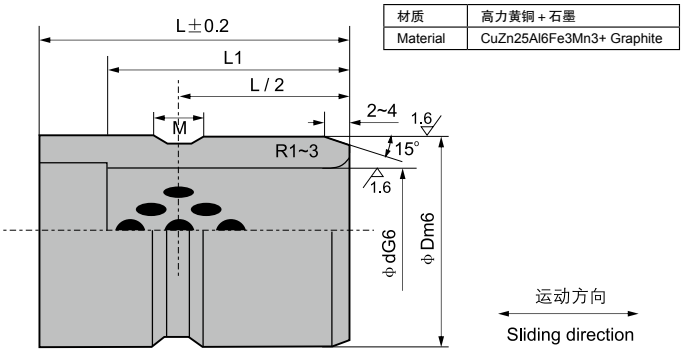
单位unit:mm

规格 Standard No.	ϕ d	E7	ϕ D	r6	ϕ A	L1	L
JDBB-12×15	12	+0.050 +0.032	18	+0.034 +0.023	25	11	15
JDBB-16×20	16		22	+0.041 +0.028	30	15	20
JDBB-20×25	20	+0.061 +0.040	28		36	20	25
JDBB-25×30	25		33	+0.050 +0.034	43	25	30
JDBB-30×35	30	+0.075 +0.050	38		48	30	35
JDBB-40×45	40		50		60	40	45
JDBB-50×55	50		62	+0.060 +0.041	75	49	55
JDBB-60×65	60	+0.090 +0.060	75	+0.062 +0.043	90	58	65

注：除以上规格尺寸外，可按客户图纸制造。

Note: In addition to the above specifications of size, manufactured according to customer drawings .

JGB 自润滑导向套
Oilless Guide Bushes



材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite

单位unit:mm

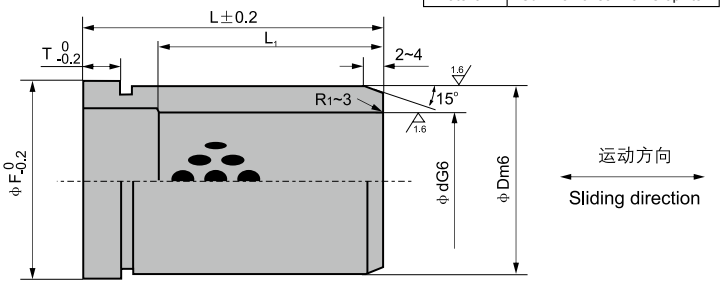
Stanard No. 规格	φd G6		φD m6		L	L1	M
JGB-12×9	12	+0.017 +0.006	18	+0.018 +0.007	9	9	-
JGB-12×14					14	14	4
JGB-12×19					19	19	
JGB-12×24					24	24	
JGB-13×14	13		20	+0.021 +0.008	14	14	
JGB-13×19					19	19	
JGB-13×24					24	24	6
JGB-13×29					29	29	
JGB-13×34					34	30	
JGB-16×14	16		25		14	14	4
JGB-16×19					19	19	
JGB-16×24					24	24	6
JGB-16×29					29	29	
JGB-16×34					34	34	
JGB-16×39					39	35	
JGB-20×14	20	+0.020 +0.007	30		14	14	4
JGB-20×19					19	19	
JGB-20×24					24	24	6
JGB-20×29					29	29	
JGB-20×34					34	34	
JGB-20×39					39	39	
JGB-20×49					49	40	
JGB-25×24	25		35		24	24	8
JGB-25×29					29	29	
JGB-25×34					34	34	
JGB-25×39					39	39	
JGB-25×49					49	49	
JGB-25×59					59	50	
JGB-30×29	30	+0.020 +0.007	42	+0.025 +0.009	29	29	8
JGB-30×34					34	34	
JGB-30×39					39	39	
JGB-30×49					49	49	
JGB-30×59					59	59	
JGB-30×69					69	60	
JGB-30×79					79		

Stanard No. 规格	φd G6		φD m6		L	L1	M
JGBF-35×29	35	+0.025 +0.009	48	+0.025 +0.009	29	29	8
JGBF-35×39					34	34	
JGBF-35×39					39	39	
JGBF-35×49					49	49	
JGBF-35×59					59	59	
JGBF-35×69					69	69	
JGBF-35×79					79	70	
JGBF-40×39	40		55	+0.030 +0.011	39	39	10
JGBF-40×49					49	49	
JGBF-40×59					59	59	
JGBF-40×69					69	69	
JGBF-40×79					79	79	
JGBF-40×89					89	80	
JGBF-50×49	50		70		49	49	10
JGBF-50×59					59	59	
JGBF-50×69					69	69	
JGBF-50×79					79	79	
JGBF-50×89					89	89	
JGBF-50×99					99	90	
JGBF-60×59	60	+0.029 +0.010	80	+0.030 +0.011	59	59	10
JGBF-60×69					69	69	
JGBF-60×79					79	79	
JGBF-60×89					89	89	
JGBF-60×99					99	90	
JGBF-60×109					109		
JGBF-70×69	70		90	+0.035 +0.013	69	69	10
JGBF-70×79					79	79	
JGBF-70×89					89	89	
JGBF-70×99					99	99	
JGBF-70×109					109	100	
JGBF-70×119					119		
JGBF-80×69	80		100		69	69	10
JGBF-80×79					79	79	
JGBF-80×89					89	89	
JGBF-80×99					99	99	
JGBF-80×109					109	100	
JGBF-80×119					119		

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

JGBF 自润滑翻边导向套
Oilless Flanged Guide Bushes

材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



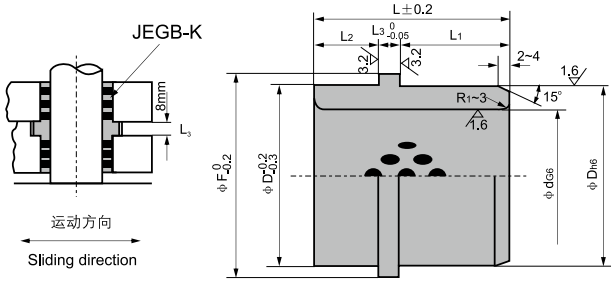
单位unit:mm

Stanard No. 规格	φd G6		φD m6		φF	T	L	L_1
JGBF–12×19	12	+0.017 +0.006	18	+0.018 +0.007	25	4	19	19
JGBF–12×24							24	24
JGBF–12×29							29	29
JGBF–12×34							34	34
JGBF–13×19	13		20	+0.021 +0.008		5	19	19
JGBF–13×24							24	24
JGBF–13×29							29	25
JGBF–13×34							34	
JGBF–13×39							39	
JGBF–16×19	16		25		30	6	19	19
JGBF–16×24							24	24
JGBF–16×29							29	29
JGBF–16×34							34	30
JGBF–16×39							39	
JGBF–16×49							49	
JGBF–20×19	20	+0.020 +0.007	30		35	8	19	19
JGBF–20×24							24	24
JGBF–20×29							29	29
JGBF–20×34							34	34
JGBF–20×39							39	39
JGBF–20×49							49	40
JGBF–20×59							59	
JGBF–25×24	25	+0.020 +0.007	35	+0.025 +0.009	40	8	24	24
JGBF–25×29							29	29
JGBF–25×34							34	34
JGBF–25×39							39	39
JGBF–25×49							49	49
JGBF–25×59							59	50
JGBF–25×69							69	
JGBF–30×29	30		42		47	10	29	29
JGBF–30×34							34	34
JGBF–30×39							39	39
JGBF–30×49							49	49
JGBF–30×59							59	59
JGBF–30×69							69	60
JGBF–30×79							79	

Stanard No. 规格	φd G6		φD m6		φF	T	L	L_1
JGBF–35×39	35	+0.025 +0.009	48	+0.025 +0.009	54	10	39	39
JGBF–35×49							49	49
JGBF–35×59							59	59
JGBF–35×69							69	69
JGBF–35×79							79	70
JGBF–35×89							89	
JGBF–35×99							99	
JGBF–40×39	40		55	+0.030 +0.011	61	10	39	39
JGBF–40×49							49	49
JGBF–40×59							59	59
JGBF–40×69							69	69
JGBF–40×79							79	79
JGBF–40×89							89	80
JGBF–40×99							99	
JGBF–40×109							109	
JGBF–50×49	50		70		76	12	49	49
JGBF–50×59							59	59
JGBF–50×69							69	69
JGBF–50×79							79	79
JGBF–50×89							89	89
JGBF–50×99							99	90
JGBF–50×109							109	
JGBF–50×119							119	
JGBF–60×99	60	+0.029 +0.010	80		86	15	99	99
JGBF–60×109							109	109
JGBF–60×119							119	110
JGBF–60×129							129	
JGBF–60×149							149	
JGBF–70×99	70		90	+0.035 +0.013	96	15	99	99
JGBF–70×109							109	109
JGBF–70×119							119	119
JGBF–70×129							129	120
JGBF–70×149							149	
JGBF–80×99	80		100		108	15	99	99
JGBF–80×109							109	109
JGBF–80×119							119	119
JGBF–80×129							129	120
JGBF–80×149							149	

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



单位unit:mm

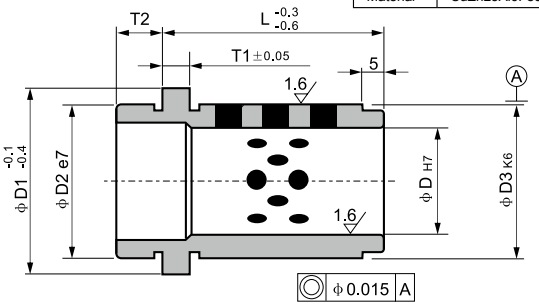
Stanard No. 规格	ϕd G6		ϕD h6		ϕF	L	L_1	L_2	L_3
JEGB–10×24	10	+0.014 +0.005	16	0 –0.011	21	24	10	10	4
JEGB–10×28						28	14		
JEGB–12×26	12	+0.017 +0.006	18			26	12		
JEGB–12×28						28	14		
JEGB–13×26	13		22	0 –0.013	25	26	12		
JEGB–13×28						28	14		
JEGB–13×33						33	18		
JEGB–13×38						38	24		
JEGB–16×26	16		25		30	26	12		
JEGB–16×28						28	14		
JEGB–16×33						33	19		
JEGB–16×38						38	24		
JEGB–20×26	20		30		35	26	12		
JEGB–20×28						28	14		
JEGB–20×33						33	19		
JEGB–20×38						38	24		
JEGB–25×26	25	+0.020 +0.007	35		40	26	12		
JEGB–25×28						28	14		
JEGB–25×33						33	19		
JEGB–25×38						38	24		
JEGB–30×33	30		40	0 –0.016	45	33	14	15	
JEGB–30×38						38	19		
JEGB–30×43						43	24		
JEGB–32×38	32		42		47	38	19		
JEGB–32×43						43	24		
JEGB–32×48						48	29		
JEGB–35×38	35	+0.025 +0.009	46		50	38	19		
JEGB–35×43						43	24		
JEGB–35×48						48	29		
JEGB–40×48	40		52	0 –0.019	57	48	24	20	
JEGB–40×53						53	29		
JEGB–50×48	50		62		67	48	24		
JEGB–50×53						53	29		
JEGB–K–30×37	30	+0.020 +0.007	42	0 –0.016	47	37	14	15	8
JEGB–K–30×42						42	19		
JEGB–K–30×47						47	24		
JEGB–K–30×52						52	29		
JEGB–K–40×53	40	+0.025 +0.009	55	0 –0.019	60	53	20	25	
JEGB–K–40×57						57	24		
JEGB–K–40×60			50	0 –0.016	55	60	32	20	
JEGB–K–40×67			55	0 –0.019	60	67	29	30	
JEGB–K–40×70			50		55	70	42	20	
JEGB–K–50×67	50		62		67	67	29	30	
JEGB–K–50×87						87	39	40	
JEGB–K–60×67	60	+0.029 +0.010	74		82	67	29	30	
JEGB–K–60×87						87	39	40	

注：除以上规格尺寸外，可按客户图纸制造。

Note: In addition to the above specifications of size, manufactured according to customer drawings .

JSLB 自润翻边轴套
Oilless Flange Bushes

材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



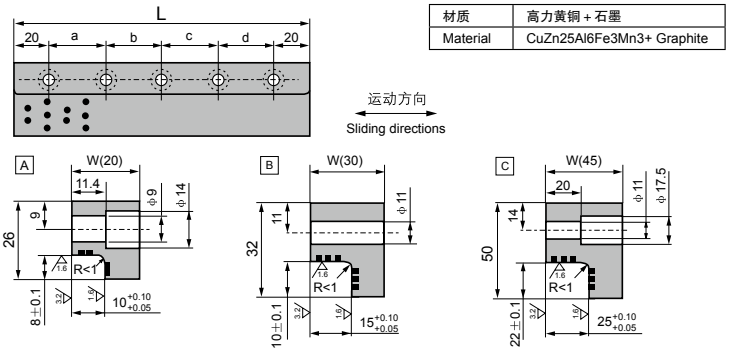
单位unit:mm

T1	T2	D1	D2	D3	D	L	Code	D	Code
3	3	16	14	14	9	12	JSLB 09 012	10	JSLB 10 012
						17	JSLB 09 017		JSLB 10 017
						22	JSLB 09 022		JSLB 10 022
						27	JSLB 09 027		JSLB 10 027
						36	JSLB 09 036		JSLB 10 036
6	6	25	20	20	14	17	JSLB 14 017	15	JSLB 15 017
						22	JSLB 14 022		JSLB 15 022
						27	JSLB 14 027		JSLB 15 027
						36	JSLB 14 036		JSLB 15 036
						46	JSLB 14 046		JSLB 15 046
						56	JSLB 14 056		JSLB 15 056
6	8	31	26	26	18	17	JSLB 18 017	20	JSLB 20 017
						22	JSLB 18 022		JSLB 20 022
						27	JSLB 18 027		JSLB 20 027
						36	JSLB 18 036		JSLB 20 036
						46	JSLB 18 046		JSLB 20 046
						56	JSLB 18 056		JSLB 20 056
						66	JSLB 18 066		JSLB 20 066

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

T1	T2	D1	D2	D3	D	L	Code	D	Code
6	8	36	30	30	22	17	JSLB 22 017	24	JSLB 24 017
						22	JSLB 22 022		JSLB 24 022
						27	JSLB 22 027		JSLB 24 027
						36	JSLB 22 036		JSLB 24 036
						46	JSLB 22 046		JSLB 24 046
						56	JSLB 22 056		JSLB 24 056
						66	JSLB 22 066		JSLB 24 066
						76	JSLB 22 076		JSLB 24 076
						86	JSLB 22 086		JSLB 24 086
6	8	47	42	42	30	27	JSLB 30 027	32	JSLB 32 027
						36	JSLB 30 036		JSLB 32 036
						46	JSLB 30 046		JSLB 32 046
						56	JSLB 30 056		JSLB 32 056
						66	JSLB 30 056		JSLB 32 066
						76	JSLB 30 076		JSLB 32 076
						86	JSLB 30 086		JSLB 32 086
						96	JSLB 30 096		JSLB 32 096
						116	JSLB 30 116		JSLB 32 116
10	12	60	54	54	40	46	JSLB 40 046	42	JSLB 42 046
						56	JSLB 40 056		JSLB 42 056
						66	JSLB 40 066		JSLB 42 066
						76	JSLB 40 076		JSLB 42 076
						86	JSLB 40 086		JSLB 42 086
						96	JSLB 40 096		JSLB 42 096
						116	JSLB 40 116		JSLB 42 116
						136	JSLB 40 136		JSLB 42 136
						156	JSLB 40 156		JSLB 42 156

JSL L 型自润滑板
Oilless L Guide Plate



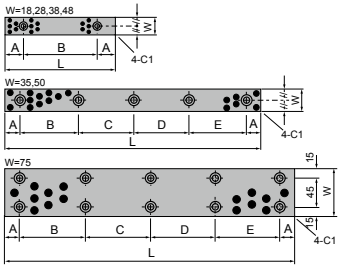
材质	高力黄铜 + 石墨
Material	CuZn25Al6Fe3Mn3+ Graphite

单位unit:mm

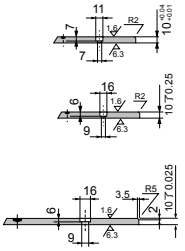
规格 Standard No.	W	L	螺孔 Bole Hole				Bolt		Type
			a	b	c	d	螺孔 Size	数量 Number	
JSL-20×100	20	100	60	——	——	——	M8	2	A
JSL-20×150		150	55	55	——	——		3	
JSL-20×200		200	55	50	55	——		4	
JSL-30×100	30	100	60	——	——	——	M10	2	B
JSL-30×150		150	55	55	——	——		3	
JSL-30×200		200	55	50	55	——		4	
JSL-30×250		250	70	70	70	——		4	
JSL-45×200	45	200	55	50	55	——		4	C
JSL-45×250		250	70	70	70	——		4	
JSL-45×300		300	65	65	65	65		5	
JSL-45×350		350	80	75	75	80		5	

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

JSP 滑板尺寸
Oilless Sliding Plate



材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite

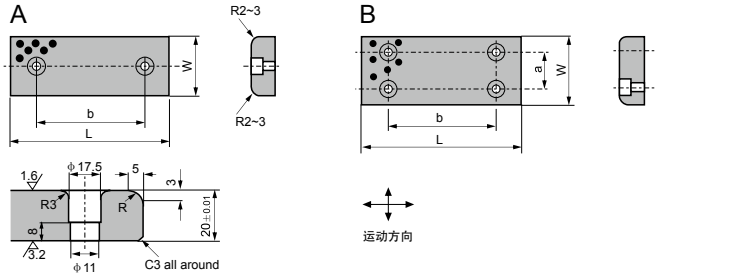


单位unit:mm

型号规格 Standard No.	W	L	A	B	C	D	E	平头螺钉 Flat Head Screw	数量 No. of Holes
JSP-1875	18	75	15	45				M6	2
JSP-18100		100	25	60					
JSP-18125		125		75					
JSP-18150		150		100					
JSP-2875	28	75	15	45					
JSP-28100		100	25	50					
JSP-28125		125		75					
JSP-28150		150		100					
JSP-35100	35	100	20	60				M8	
JSP-35150		150		55	55				3
JSP-35200		200		55	50	55			4
JSP-35250		250		70	70	70			4
JSP-35300		300		65	65	65	65		5
JSP-35350		350		80	75	75	80		5
JSP-3875	38	75	15	45				M6	2
JSP-38100		100	25	50					
JSP-38125		125		75					
JSP-38150		150		100					
JSP-4875	48	75	15	45					
JSP-48100		100	25	50					
JSP-48125		125		75					
JSP-48150		150		100					
JSP-50100	50	100	20	60				M8	
JSP-50150		150		55	55				3
JSP-50200		200		55	50	55			4
JSP-50250		250		70	70	70			4
JSP-50300		300		65	65	65	65		5
JSP-50400		400		90	90	90	90		5
JSP-75150	75	150		110					4
JSP-75200		200		80	80				6
JSP-75250		250		105	105				6
JSP-75300		300		85	90	85			8
JSP-75400		400		120	120	120			8
JSP-75500		500		115	115	115	115		10

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



单位unit:mm

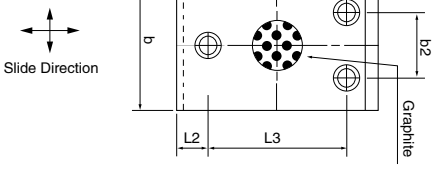
代号	W	L	a	b	倒角
JESW 28×75	28	75		45	A
JESW 28×100		100		50	
JESW 28×150		150		100	
JESW 38×75	38	75		45	
JESW 38×100		100		50	
JESW 38×150		150		100	
JESW 48×75	48	75		45	
JESW 48×100		100		50	
JESW 48×125		125		75	
JESW 48×150		150		100	
JESW 48×200		200		150	
JESW 58×75	58	75		45	
JESW 58×100		100		50	
JESW 58×150		150		100	
JESW 75×75	75	75		25	
JESW 75×100		100		50	
JESW 75×125		125		75	
JESW 75×150		150		100	
JESW 75×200		200		150	
JESW 100×100	100	100	50	50	B
JESW 100×125		125		75	
JESW 100×125		150		100	
JESW 100×200		200		150	
JESW 100×250		250		200	
JESW 125×125	125	125	50	75	
JESW 125×150		150		100	
JESW 125×200		200		150	
JESW 125×250		250		200	
JESW 150×150	150	150	100	100	
JESW 150×200		200		150	
JESW 150×250		250		200	
JESW 150×300		300		250	
JESW 200×200	200	200	150	150	
JESW 200×250		250		200	
JESW 200×300		300		250	

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

39D 863 自润滑板
Oilless Wear Plate

Sliding Bearing Specialist
FANGMU

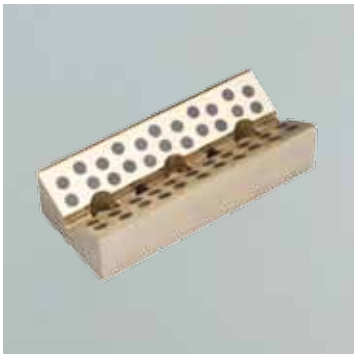
材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite

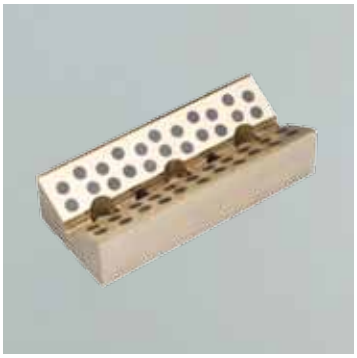


单位unit:mm

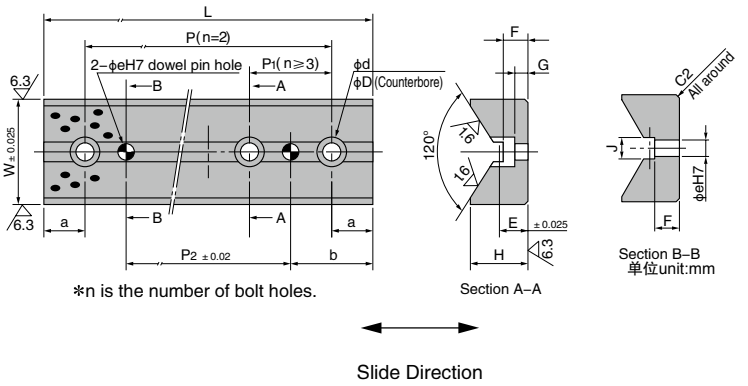
Code 型号	b -0.2	L1 -0.2	b2 ± 0.2	L2 ± 0.2	L3 ± 0.2	L4 ± 0.2	Bolt	Screw Holes 螺丝孔
39D863-12	50	80	-	25	30	-	M8 × 25	2
39D863-13		100	-		50	-	M12 × 25	
39D863-14		125	-		75	-		
39D863-15		160	-		110	-		
39D863-16		200	-		150	-		
39D863-111		250	-		60	80		4
39D863-112		300	-		80	90		
39D863-113		350	-		100	100		
39D863-114		400	-		120	110		
39D863-115		450	-		140	120		
39D863-116		500	-		150	150		
39D863-21	80	50	30	25		-	M8 × 25	2
39D863-22		80	-		30	-	M12 × 25	
39D863-23		100	-		50	-		
39D863-24		125	-		75	-		
39D863-25		160	-		110	-		
39D863-26		200	-		150	-		
39D863-121		250	-		60	80		4
39D863-122		300	-		80	90		
39D863-123		350	-		100	100		
39D863-124		400	-		120	110		
39D863-125		450	-		140	120		
39D863-126		500	-		150	150		
39D863-31	100	50	50	25		-	M12 × 25	2
39D863-32		80		40		-		
39D863-33		100	-	25	50	-		
39D863-34		125	-		75	-		
39D863-35		160	-		110	-		
39D863-36		200	-		150	-		
39D863-131		450	-		140	120		4
39D863-132		500	-		150	150		
39D863-41	125	50	75	25		-	M12 × 25	2
39D863-42		80		40		-		
39D863-43		100		25	50	-		3
39D863-44		125			75	-		
39D863-45		160			110	-		
39D863-46		200			150	-		
39D863-141		450	-		140	120		4
39D863-142		500	-		150	150		
39D863-51	160	50	110	25		-	M12 × 25	2
39D863-52		80		40		-		
39D863-53		100		25	50	-		3
39D863-54		125			75	-		
39D863-55		160			110	-		
39D863-56		200			150	-		

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .





材质	高力黄铜 + 石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



*n is the number of bolt holes.

Slide Direction

·bolt hole

W	d	D
35	9	14
50·65	11	17.5

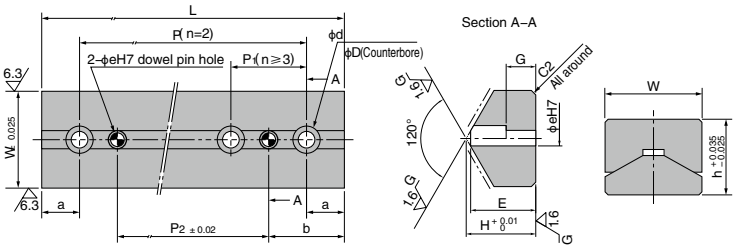
单位unit:mm

Code 型号	W	L	H	ℓ	ℓ_1	P	P1	n	P2	E	F	G
DCBS	65	100	35	25	50	-	50	2	20	18	15	8
		150						3	50			
		200						4	100			
		250						5	150			
		300						6	200			
DCBSL	65	100	37	25	50	60	-	2	20	20	20	10
		125				75			25			
		150				100			50			
		200				-	75	3	100			
		250					100		150			
		300					125		200			

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

DCBSP/DCBSPL V型导板
Cam Slide Guide

材质	S45C
Material	钢基 + HRC≥55



*n is the number of bolt holes.

*The dowel hole effective depth is 15 mm.

·bolt hole

W	d	D
35	9	14
50·65	11	17.5

·UTotal height of Combination DCBS and DCBSP

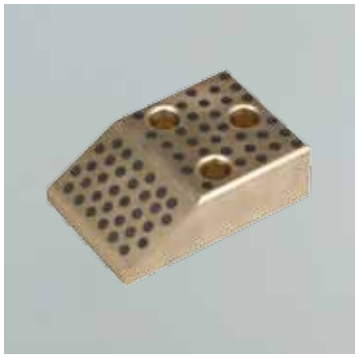
W	H
35	35
50	50
65	65

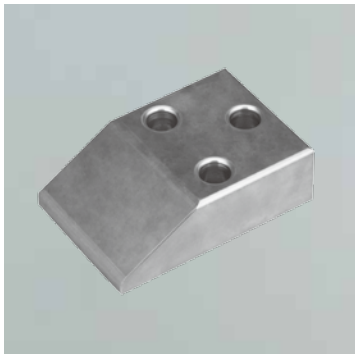
单位unit:mm

Code 型号	W	L	H	ℓ	ℓ_1	P	P1	n	P2	E	G
DCBSP	65	100	47	20	40	60	-	2	20	44	20
		150		25	50	-	50	3	50		
		200						4	100		
		250						5	150		
		300						6	200		
DCBSPL	65	100	30	20	40	60	-	2	20	26	10
		125		25	50	75			25		
		150				100			50		
		200				-	75	3	100		
		250					100		150		
		300					125		200		

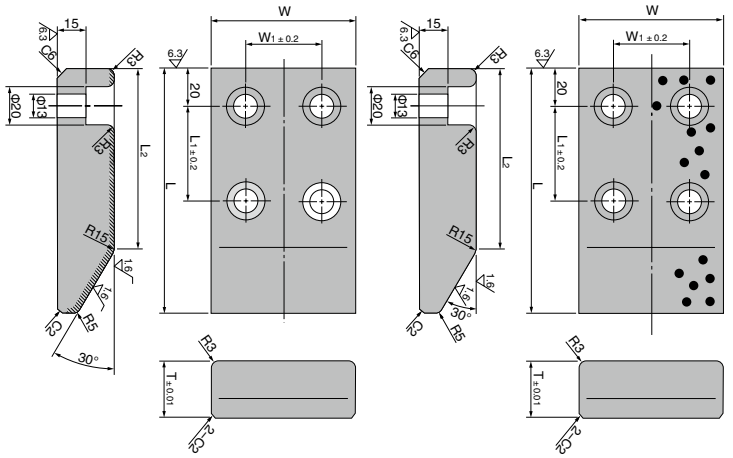
注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

DSPW/DSPS 凸轮行程滑板
Cam Stroke Plate





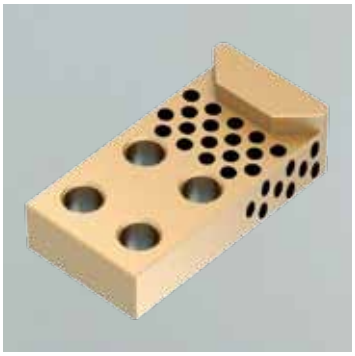
DSPW	CuZn25Al6Fe3Mn3+ Graphite 高力黄铜＋石墨
DSPS	S45C 钢基＋HRC≥55



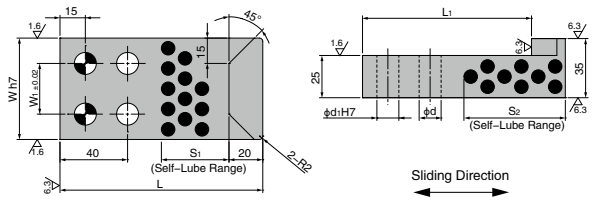
单位unit:mm

Code 型号	W	L	T	W_1	L_1	L_2
DSPW/DSPS-75×130	75	130	30	40	50	95
DSPW/DSPS-75×150	100	150	45		45	90
DSPW/DSPS-100×130		130	30	60	50	95
DSPW/DSPS-100×150		150	45		45	90
DSPW/DSPS-100×170		170	60			
DSPW/DSPS-100×200		200			75	120
DSPW/DSPS-125×130	125	130	30	85	50	95
DSPW/DSPS-125×150		150	45		45	90
DSPW/DSPS-125×170		170	60			
DSPW/DSPS-125×200		200			75	120
DSPW/DSPS-150×130	150	130	30	110	50	95
DSPW/DSPS-150×150		150	45		45	90
DSPW/DSPS-150×170		170	60			
DSPW/DSPS-150×200		200			75	120

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .



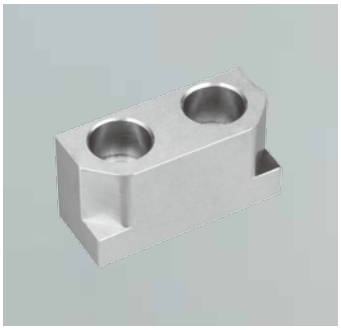
材质	高力黄铜＋石墨
Material	CuZn25Al6Fe3Mn3+ Graphite



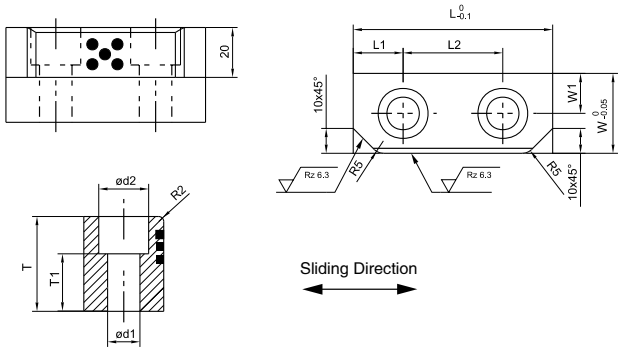
单位unit:mm

Code 型号	W	h7	L_1	L_2	S_1	S_2	W_1	d	d_1
DPGPC-60×120	60	0 -0.030	120	100	40	60	30	13	13
DPGPC-60×140			140	120	60	80			
DPGPC-60×160			160	140	80	100			
DPGPC-100×120	100	0 -0.035	120	100	40	60	70	18	16
DPGPC-100×140			140	120	60	80			
DPGPC-100×160			160	140	80	100			
DPGPC-150×120	150	0 -0.040	120	100	40	60	120		
DPGPC-150×140			140	120	60	80			
DPGPC-150×160			160	140	80	100			

DCPRB/DCPRBS



DCRPB	CuZn25Al6Fe3Mn3+ Graphite
	高力黄铜＋石墨
DCRPBS	S45C
	钢基＋HRC≥55



单位unit:mm

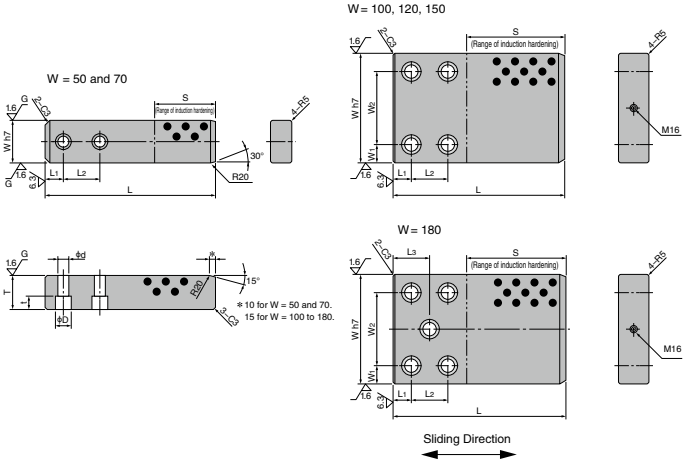
Code 型号	W×L×S	L1	L2	W1	T1	d1	d2
DCRPB/DCPRBS	25×60×30	15	30	11	18	11	17.5
DCRPB/DCPRBS	32×60×38	15	30	16	23	13	20
DCRPB/DCPRBS	32×80×38	20	40	16	23	13	20

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

DGBZ 自润外导板
Oilless Wear Plate

Sliding Bearing Specialist FANGMU

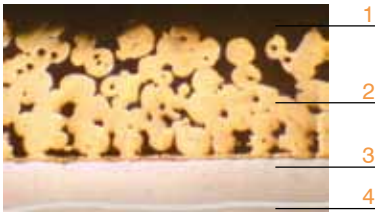
材质	钢基 + HRC≥40
Material	S45C



单位unit:mm

Code 型号	W	L	W h7		L_1	L_2	L_3	W_1	W_2	D	d	t	e	s	T
DGBZ-50 × 160	50	160	50	0 -0.025	20	50	-	-	-	26	18	18	10	60	30
DGBZ-50 × 200		200												120	
DGBZ-50 × 260		260				80									
DGBZ-70 × 230	70	230	70	0 -0.030	25	60								100	35
DGBZ-70 × 260		260												160	
DGBZ-70 × 300		300				75									
DGBZ-70 × 350		350				150								150	
DGBZ-100 × 230	100	230	100	0 -0.035		60		20	60	32	22	22	15	100	45
DGBZ-100 × 280		280												160	
DGBZ-100 × 330		330				100	-								
DGBZ-100 × 390		390				120								200	
DGBZ-120 × 230	120	230	120			60		30						100	
DGBZ-120 × 280		280												160	
DGBZ- 120 × 330		330				100									
DGBZ-120 × 390		390				120								200	
DGBZ-150 × 280	150	280	150		30	60			90					160	50
DGBZ-150 × 330		330				80								190	
DGBZ-150 × 390		390				140									
DGBZ-150 × 430		430				180									
DGBZ-180 × 280	180	280	180	0 -0.040		60	60		120					160	55
DGBZ-180 × 330		330				80	70							190	
DGBZ-180 × 390		390				140	100								
DGBZ-180 × 430		430				180	120								
DGBZ-180 × 480		480				200	130							200	
DGBZ-180 × 550		550				225	142.5							250	

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .



1.聚四氟乙烯与铅的混合物　2.球形青铜粉
3.钢背　4.电镀层
1.PTFE with lead　2.Porous bronze
3.Steel backing　4.Tin–plating

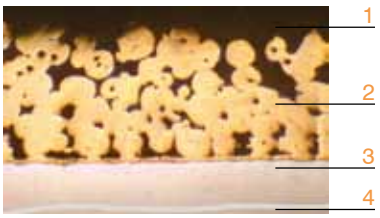
SF-1 碳钢基自润滑轴承
Carbon Steel self-lubricating bearing

该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制聚四氟乙烯和铅的混合物。它具有较好的自润滑、耐磨损、摩擦系数低、走合性能好、低噪音等性能，产品广泛应用于各种机械的滑动部位，如纺织机、印刷机、液压搬运车、烟草机、健身器、农业机械等。

SF-1 Carbon Steel self-lubricating bearings used high quality low-carbon steel plate as base, sintered porous bronze as its interlayer and the Compound of PTFE and Lead as its surface. It offers the property of good self-lubrication, low wear, low friction good sliding characteristics, low noise. It has been widely applied to various mechanical sliding positions, such as textile machinery, printing machinery, hydraulic pressure transit vehicle, tobacco machinery, gymnastic instrument and agricultural machinery etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 · m/s
	油润滑 Oil lubrication	50N/mm^2 · m/s
摩擦系数 μ Friction coefficient	干摩擦 Dry friction	0.08 ~ 0.20
	油润滑 Oil lubrication	0.02 ~ 0.07
使用温度 Working temperature		–195℃ ~ +280℃
导热系数 Thermal conductivity		42W/m · K
热膨胀系数 Coefficient of thermal expansion		11 × 10^{-6}/K



1.聚四氟乙烯与纤维混合物　2.球形青铜粉
3.钢背　4.电镀层
1.PTFE with fibre　2.Porous bronze
3.Steel backing　4.Tin–plating

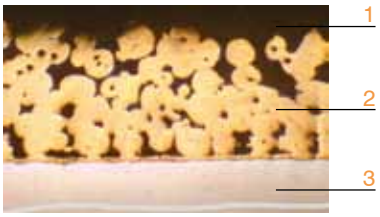
SF-1W 碳钢基无铅自润滑轴承
Carbon Steel Pb-free self-lubricating bearin

该产品与SF–1具有相同结构和使用性能，同时它具有环保的特点。产品广泛应用于汽车、食品工业机械、制药机械、饮料机械、医疗设备等绿色工业场合。

Carbon Steel Pb-free self-lubricating bearing which is in the same structure and properties as SF-1. Meanwhile it is characterized by environmental protection.It has been widely applied to automobile, food-processing machinery, pharmacy machinery, beverage machinery, medical equipment etc. On green industry occasions.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 · m/s
	油润滑 Oil lubrication	50N/mm^2 · m/s
摩擦系数 μ Friction coefficient	干摩擦 Dry friction	0.08 ~ 0.20
	油润滑 Oil lubrication	0.02 ~ 0.07
使用温度 Working temperature		–195℃ ~ +280℃
导热系数 Thermal conductivity		42W/m · K
热膨胀系数 Coefficient of thermal expansion		11 × 10^{-6}/K



1.聚四氟乙烯与亲油性纤维混合物
2.球形青铜粉　3.铜背
1.PTFE with Fiber　2.Porous bronze
3.Bronze backing

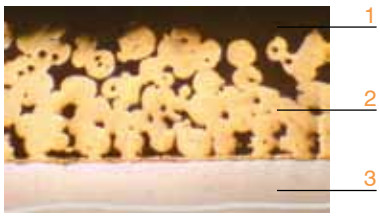
SF-1B 铜基无铅自润滑轴承
Bronze Pb-free self-lubricating bearings

该产品以特殊配方铜合金为基体，中间烧结球形青铜层，表面轧制聚四氟乙烯和亲油性纤维的混合物。它具有较好的自润滑、耐磨损、摩擦系数低、耐腐蚀等性能，产品广泛应用于冶金机械、连铸轧机、水泥灌浆机械、螺旋式输送机等。

SF-1B Bronze Pb-free self-lubricating bearing used bronze alloy as base with special formulation, sintered porous bronze as its interlayer and the Compound of PTFE and lipophilicity fiber as its surface. It offers the property of good self-lubricating, low wear, low friction, corrosion resistence. It has been widely applied to metallurgy steel machinery, joined casting machinery, cement grout pump and spiral conveyer machinery etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 · m/s
	油润滑 Oil lubrication	50N/mm^2 · m/s
摩擦系数 μ Friction coefficient	干摩擦 Dry friction	0.08 ~ 0.20
	油润滑 Oil lubrication	0.02 ~ 0.07
使用温度 Working temperature		−195℃ ~ +280℃
导热系数 Thermal conductivity		70W/m · K
热膨胀系数 Coefficient of thermal expansion		17 × 10^{-6}/K



1.聚四氟乙烯与亲油性纤维混合物
2.球形青铜粉　3.铜背
1.PTFE with Fiber　2.Steel backing
3.Tin−Plating

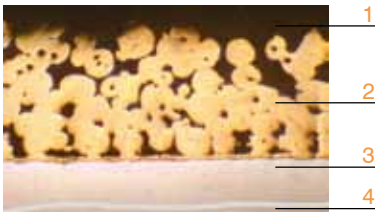
SF-1D 碳钢基自润滑轴承（液压泵）
Carbon steel self-lubricating bearing (hydraulic pump)

该产品与SF−1具有相同结构，是液压专用轴承，是结合油缸及减震器的工作原理而设计的特殊配方产品。它具有SF−1优点外，特别适用于往复频繁的大侧向力场合，产品适用于汽车减震器、摩托车减震器以及各种液压油缸等。

SF-1D has the same structure with SF-1, particularly suitable for hydraulic pump. It is a special formula designed by combining oil cylinder with the working principle of bumpers. Besides the advantages of SF-1, it is particularly applicable for the situation of great cross range force of frequent to-and-fro. It is applicable for automobile shock absorbers, motorcycle bumper and various hydraulic pressure cylinders etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	3.0m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.8N/mm^2 · m/s
	油润滑 Oil lubrication	50N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.04 ~ 0.20
使用温度 Working temperature		−195℃ ~ +270℃
导热系数 Thermal conductivity		42W/m · K



1.聚四氟乙烯与铅及其他填充混合物
2.球形青铜粉　3.钢背　4.电镀层
1.PTFE with lead　2.Porous bronze
3.Steel backing　4.Tin–plating

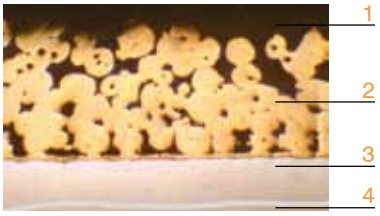
SF-1T 碳钢基自润滑轴承（齿轮油泵）
Carbon Steel self-lubricating bearing (Gear pump)

该产品与SF–1具有相同结构，是齿轮油泵专用轴承。根据齿轮油泵的高PV值条件而设计的特殊配方产品。它具有摩擦系数小而稳定，耐磨性能好，抗冲击的特点，产品广泛应用于齿轮油泵、柱塞泵、叶片泵等。

SF-1T Carbon Steel self-lubricating bearing (Gear pump) has the same structure as SF-1, it is special for gear pump. It is a special formula product devised by high PV value operational mode conditions of gear oil pump. Characterized by low friction factor, stability, well wearing performance and impact resistance, it has been widely applied to gear pumps, radial piston pumps and vane pumps etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	4.3N/mm^2 · m/s
	油润滑 Oil lubrication	60N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.03 ~ 0.20
使用温度 Working temperature		–195℃ ~ +280℃
导热系数 Thermal conductivity		42W/m · K



1.聚四氟乙烯与铜的混合物　2.球形青铜粉
3.钢背　4.电镀层
1.PTFE with CU　2.Porous bronze
3.Steel backing　4.Tin–plating

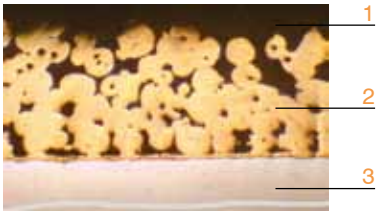
SF-1P 碳钢基无铅自润滑轴承（减震器）
Carbon Steel Pb-free self-lubricating bearing (absorber)

该产品与SF–1具有相同结构，是根据往复运动的特殊工况条件而设计的特殊配方产品，具有断油条件下润滑能力强，耐磨性能好，保持油膜的特点。产品广泛应用于汽车减震器、摩托车减震器、液压马达、气动元件等。

SF-1P Carbon Steel Pb-free self-lubricating bearing has the same structure as SF-1, particularly suitable for intermittent operation, reciprocating or oscillating movements. Characterized by good lubrication and wear performace in the conditions of dry operation of oil. It is applied to shock absorber of automobile, motorcycles and various hydraulic motors and pneumatic elements etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 · m/s
	油润滑 Oil lubrication	50N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.04 ~ 0.20
使用温度 Working temperature		–195℃ ~ +270℃
导热系数 Thermal conductivity		42W/m · K



1.聚四氟乙烯与亲油性纤维混合物
2.球形青铜粉　3.钢背
1.PTFE with Fiber　2.Porous bronze
3.Stainless steel 316 backing

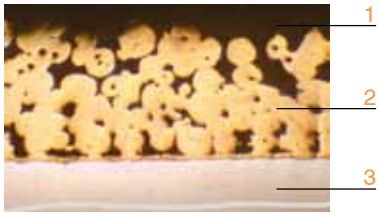
SF-1S 不锈钢基自润滑轴承
Stainless steel self-lubricating bearing

该产品以不锈钢为基体，中间烧结球形青铜层，表面轧制聚四氟乙烯和铅的混合物。它具有较好的自润滑、耐磨损、摩擦系数低、耐腐蚀等性能。产品广泛应用于印染机械、化工机械、海洋工业耐腐蚀部位等。

SF-1S Stainless steel self-lubricating bearing uses stainless steel as base, sintered porous bronze as its interlayer and the Compound of PTFE and Lead as its surface. It offer the property of good self-lubrication, low wear, low friction, corrosion resistence. It has been widely applied to dyeing machinery, chemical engineering machinery and marine industry etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.0m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 · m/s
	油润滑 Oil lubrication	50N/mm^2 · m/s
摩擦系数 μ Friction coefficient	干摩擦 Dry friction	0.08 ~ 0.20
	油润滑 Oil lubrication	0.02 ~ 0.07
使用温度 Working temperature		−195℃ ~ +280℃
导热系数 Thermal conductivity		42W/m · K
热膨胀系数 Coefficient of thermal expansion		15 × 10^{-6}/K



1.聚四氟乙烯与亲油性纤维混合物
2.不锈钢背
1.PTFE with Fiber
2.Stainless steel 316 backing

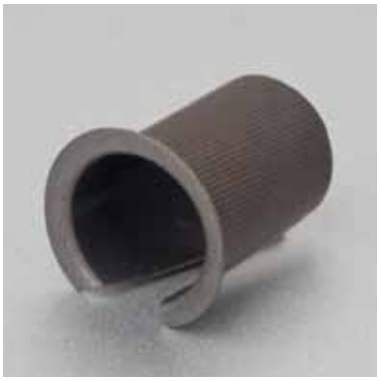
SF-1SS 不锈钢基无铅自润滑轴承
Stainless steel Pb-free self-lubricating bearing

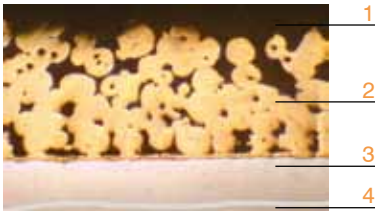
该产品以不锈钢为基体，表面喷涂聚四氟乙烯。它具有较好的耐酸、耐碱、耐海水、环保等特点。产品广泛应用于化工中酸碱流量计、泵、阀以及海洋工业耐腐蚀部位等。

SF-1SS Stainless steel Pb-free self-lubricating bearing used stainless steel material as base, spray painting PTFE on the surface. It is characterized by acid-resistant, alkaline-resistant, ocean water resistant and environmental protection. It is t is used widely as fluid valve of measuring acid and alkalizing flow in chemical industry, and corrosion resisting sliding position in marine industry.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity		120N/mm^2
最高线速度 V Max Sliding Speed		2.5m/s
最高PV值 Max PV Value Limit	静载 Static load	3.0N/mm^2 · m/s
	动载 Dynamic load	40N/mm^2 · m/s
摩擦系数 μ Friction coefficient	干摩擦 Dry friction	0.10 ~ 0.25
	油润滑 Oil lubrication	0.05 ~ 0.10
使用温度 Working temperature		−195℃ ~ +270℃
导热系数 Thermal conductivity		42W/m · K





1.聚四氟乙烯与铅及其他填充混合物
2.球形青铜粉　3.钢背　4.电镀层
1.PTFE with lead　2.Porous bronze
3.Steel backing　4.Tin–plating

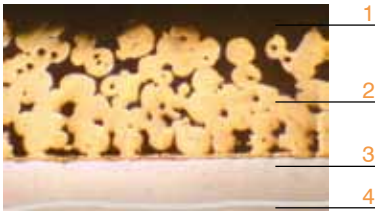
FR 铜网无铅自润滑轴承
Bronze mesh self-lubricating bearing without lead

该产品以青铜丝网为基体，通过特殊工艺，表面轧制聚四氟乙烯和亲油性纤维。它具有较低的摩擦系数、较好的耐磨性以及柔软性好。产品广泛应用于纺织机械关节轴承、汽车门铰链、汽车操纵杆等场合。

FR Bronze Pb-free self-lubricating bearing uses bronze mesh as its structure, by means of special technology, rolled by PTFE at the surface and lipophilicity fiber. It performs well with lower friction and well anti-wear good pliability. It has been widely used in linkage of textile machinery, tailgate hinges, automotive steering and so on.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	80N/mm^2
	动载 Dynamic load	40N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	1.0m/s
	油润滑 Oil lubrication	2.5m/s
最高PV值 Max PV Value Limit		1.65N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.05~0.20
使用温度 Working temperature		–40℃ ~ +260℃



1.聚四氟乙烯与铜的混合物　2.球形青铜粉
3.钢背　4.电镀层
1.PTFE with CU　2.Porous bronze
3.Steel backing　4.Tin–plating

TEX 碳钢基PTFE织物无铅自润滑轴承
Carbon steel PTFE fabric Pb-free self-lubricating bearing

该产品以优质低碳钢为基体，表面覆着以聚四氟乙烯织物。它具有更高承载力、更长的使用寿命。产品广泛应用于农用机械、球阀、蝶阀、水泵以及化工工业等重载低速而无法加油的领域。

TEX is based on steel backing as its structure, the surface is laid with PTFE fabric. It performs well with heavy load and long lifetime.It is widely applies to agriculture machinery, sphere valve, butterfly valve , pumps, chemical industry in the conditions of heavy load, low velocity but unable oiling conditions.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	350N/mm^2
	动载 Dynamic load	180N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	0.5m/s
	油润滑 Oil lubrication	2.5m/s
最高PV值 Max PV Value Limit		3.6N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.03~0.20
使用温度 Working temperature		–50℃ ~ +250℃

轴套外径公差表
Bushing O.D.Tolerances Table

外径 ϕD Outer Diameter ϕD	外径公差 Outer Diameter Tolerance
ϕD≤10	+0.055 +0.025
10 < ϕD≤18	+0.065 +0.030
18 < ϕD≤30	+0.075 +0.035
30 < ϕD≤50	+0.085 +0.045
50 < ϕD≤80	+0.100 +0.055
80 < ϕD≤120	+0.120 +0.070
120 < ϕD≤180	+0.170 +0.100
180 < ϕD≤250	+0.210 +0.130
250 < ϕD≤305	+0.260 +0.170

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

内径 ϕd Inner Diameter ϕd	壁厚公差t Wall Thickness Tolerance
ϕd < 5	$0.75^{0}_{-0.020}$
5≤ ϕd≤18	$1.0^{+0.005}_{-0.020}$
18 < ϕd≤25	$1.5^{+0.005}_{-0.025}$
25 < ϕd < 45	$2.0^{+0.005}_{-0.030}$
45≤ ϕd < 80	$2.5^{+0.005}_{-0.040}$
80≤ ϕd < 120	$2.5^{-0.010}_{-0.060}$
ϕd≥120	$2.5^{-0.035}_{-0.085}$

可供标准产品的标注方式
Standard Bushing Label Mode

■ 直套标注方式 Bushing Label Mode

SF-1□ ×× ××
- 直套型号 Bushing Type
- 直套内径 Bushing Inner Diameter
- 直套高度 Bushing Length

■ 英制直套标注方式 The Inch Bushing Label Mode

SF-1□ ×× ××
- 直套型号 Bushing Type
- 直套内径 Bushing Inner Diameter
- 直套高度 Bushing Length

■ 翻边套标注方式 Flange Bushing Label Mode

SF-1□F ×× ×××
- 翻边套型号 Flange Bushing Type
- 翻边套内径 Flange Bushing Inner Diameter
- 翻边套高度 Flange Bushing Length

■ 英制翻边套标注方式 The Inch Flange Bushing Label Mode

SF-1□F ××
- 垫片型号 Washer Type
- 垫片规格 Washer Specification

■ 垫片标注方式 Washer Label Mode

SF-1□W ××
- 垫片型号 Washer Type
- 垫片规格 Washer Specification

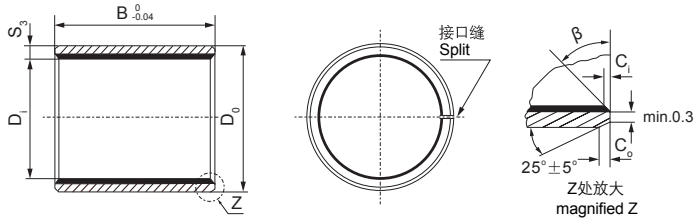
■ 英制垫片标注方式 The Inch Washer Label Mode

SF-1□W ×× ××
- 垫片型号 Washer Type
- 垫片规格 Washer Specification
- 垫片规格 Washer Specification

■ 板材标注方式 Strip Label Mode

SF-1□P ××× ×××
- 板材型号 Strip Type
- 板材厚度 Strip Wall Thickness
- 板材宽度 Strip Width

SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制直套
Metric Standard Bushing



内外倒角

S_3	C_o	C_i	β
0.75	0.5 ± 0.3	0.25 ± 0.2	30° ± 5°
1.00	0.6 ± 0.3	0.30 ± 0.2	30° ± 5°
1.50	0.7 ± 0.3	0.50 ± 0.3	30° ± 5°

S_3	C_o	C_i	β
2.00	1.2 ± 0.4	0.50 ± 0.3	30° ± 5°
2.50	1.8 ± 0.6	0.60 ± 0.3	45° ± 5°

※标准直套标注方式：Standard Bushing Label Mode SF−1□ 0606

单位unit:mm

型号 Type	轴径(f7) D_s	座孔(H7) D_H	外径公差 D_O	压装后内孔公差 $D_{i,a}$	配合间隙 D_D	壁厚 S_3	长度B $^{0}_{-0.40}$ (ds≤Φ28 L-0.30 ; d>Φ30 L-0.40)									
							6	8	10	12	15	20	25	30	40	50
SF-1□	6 $^{-0.010}_{-0.022}$	8 $^{+0.015}$	8 $^{+0.055}_{+0.025}$	6.055 5.990	0.077 0.000	1.005 0.980	0606	0608	0610							
SF-1□	8 $^{-0.013}_{-0.028}$	10 $^{+0.015}$	10 $^{+0.055}_{+0.025}$	8.055 7.990	0.083 0.003		0806	0808	0810	0812	0815					
SF-1□	10 $^{-0.013}_{-0.028}$	12 $^{+0.018}$	12 $^{+0.065}_{+0.030}$	10.058 9.990	0.086 0.003		1006	1008	1010	1012	1015	1020				
SF-1□	12 $^{-0.016}_{-0.034}$	14 $^{+0.018}$	14 $^{+0.065}_{+0.030}$	12.058 11.990	0.092 0.006		1206	1208	1210	1212	1215	1220	1225			
SF-1□	13 $^{-0.016}_{-0.034}$	15 $^{+0.018}$	15 $^{+0.065}_{+0.030}$	13.058 12.990					1310			1320				
SF-1□	14 $^{-0.016}_{-0.034}$	16 $^{+0.018}$	16 $^{+0.065}_{+0.030}$	14.058 13.990					1410	1412	1415	1420	1425			
SF-1□	15 $^{-0.016}_{-0.034}$	17 $^{+0.018}$	17 $^{+0.065}_{+0.030}$	15.058 14.990					1510	1512	1515	1520	1525			
SF-1□	16 $^{-0.016}_{-0.034}$	18 $^{+0.018}$	18 $^{+0.065}_{+0.030}$	16.058 15.990					1610	1612	1615	1620	1625			
SF-1□	17 $^{-0.016}_{-0.034}$	19 $^{+0.021}$	19 $^{+0.075}_{+0.035}$	17.061 16.990	0.095 0.006				1710	1712		1720				
SF-1□	18 $^{-0.016}_{-0.034}$	20 $^{+0.021}$	20 $^{+0.075}_{+0.035}$	18.061 17.990					1810	1812	1815	1820	1825			
SF-1□	20 $^{-0.020}_{-0.041}$	23 $^{+0.021}$	23 $^{+0.075}_{+0.035}$	20.071 19.990	0.112 0.010	1.505 1.475			2010	2012	2015	2020	2025	2030		
SF-1□	22 $^{-0.020}_{-0.041}$	25 $^{+0.021}$	25 $^{+0.075}_{+0.035}$	22.071 21.990					2210	2212	2215	2220	2225	2230		
SF-1□	24 $^{-0.020}_{-0.041}$	27 $^{+0.021}$	27 $^{+0.075}_{+0.035}$	24.071 23.990							2415	2420	2425	2430		
SF-1□	25 $^{-0.020}_{-0.041}$	28 $^{+0.021}$	28 $^{+0.075}_{+0.035}$	25.071 24.990					2510	2512	2515	2520	2525	2530	2540	2550
SF-1□	28 $^{-0.020}_{-0.041}$	32 $^{+0.025}$	32 $^{+0.085}_{+0.045}$	28.085 27.990	0.126 0.010	2.005 1.970					2815	2820	2825	2830	2840	
SF-1□	30 $^{-0.020}_{-0.041}$	34 $^{+0.025}$	34 $^{+0.085}_{+0.045}$	30.085 29.990						3012	3015	3020	3025	3030	3040	
SF-1□	32 $^{-0.025}_{-0.050}$	36 $^{+0.025}$	36 $^{+0.085}_{+0.045}$	32.085 31.990	0.135 0.015							3220		3230	3240	
SF-1□	35 $^{-0.025}_{-0.050}$	39 $^{+0.025}$	39 $^{+0.085}_{+0.045}$	35.085 34.990						2512	2515	2520	2525	2530	2540	3550
SF-1□	38 $^{-0.025}_{-0.050}$	42 $^{+0.025}$	42 $^{+0.085}_{+0.045}$	38.085 37.990							3815			3830	3840	
SF-1□	40 $^{-0.025}_{-0.050}$	44 $^{+0.025}$	44 $^{+0.085}_{+0.045}$	40.085 39.990						4012		4020	4025	4030	4040	4050

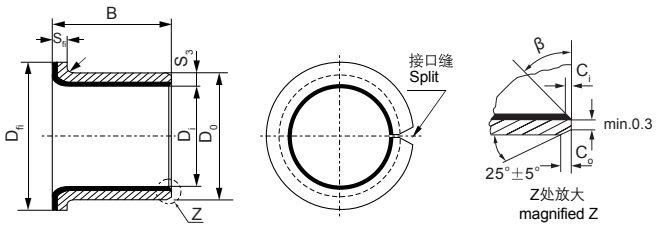
SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制直套
Metric Standard Bushing

Sliding Bearing Specialist FANGMU

单位unit:mm

型号 Type	轴径 (f7) D_s	座孔(H7) D_H	外径公差 D_O	压装后内孔公差 $D_{i,a}$	配合间隙 C_O	壁厚 S_3	长度B $^{0}_{-0.40}$									
							20	25	30	40	50	60	70	80	100	115
SF-1□	$45^{-0.050}_{-0.025}$	$50^{+0.025}$	$50^{+0.085}_{+0.045}$	45.105 44.990	0.155 0.015	2.505 2.460	4520	4525	4530	4540	4550					
SF-1□	$50^{-0.050}_{-0.025}$	$55^{+0.030}$	$55^{+0.100}_{+0.055}$	50.110 49.990	0.160 0.015		5020		5030	5040	5050	5060				
SF-1□	$55^{-0.060}_{-0.030}$	$60^{+0.030}$	$60^{+0.100}_{+0.055}$	55.110 54.990	0.170 0.020				5530	5540	5550	5560				
SF-1□	$60^{-0.060}_{-0.030}$	$65^{+0.030}$	$65^{+0.100}_{+0.055}$	60.110 59.990					6030	6040	6050	6060	6070			
SF-1□	$65^{-0.060}_{-0.030}$	$70^{+0.030}$	$70^{+0.100}_{+0.055}$	65.110 64.990					6530	6540	6550	6560	6570			
SF-1□	$70^{-0.060}_{-0.030}$	$75^{+0.030}$	$75^{+0.100}_{+0.055}$	70.110 69.990						7040	7050	7060	7070	7080		
SF-1□	$75^{-0.060}_{-0.030}$	$80^{+0.030}$	$80^{+0.100}_{+0.055}$	75.110 74.990					7530	7540	7550	7560	7570	7580		
SF-1□	$80_{-0.045}$	$85^{+0.035}$	$85^{+0.120}_{+0.070}$	80.155 80.020	0.201 0.020	2.490 2.440				8040	8050	8060	8070	8080	80100	
SF-1□	$85_{-0.054}$	$90^{+0.035}$	$90^{+0.120}_{+0.070}$	85.155 85.020	0.209 0.020					8540		8560		8580	85100	
SF-1□	$90_{-0.054}$	$95^{+0.035}$	$95^{+0.120}_{+0.070}$	90.155 90.020						9040	9050	9060		9080	90100	
SF-1□	$95_{-0.054}$	$100^{+0.035}$	$100^{+0.120}_{+0.070}$	95.155 95.020							9550	9560		9580	95100	
SF-1□	$100_{-0.054}$	$105^{+0.035}$	$105^{+0.120}_{+0.070}$	100.155 100.020							10050	10060		10080		100115
SF-1□	$105_{-0.054}$	$110^{+0.035}$	$110^{+0.120}_{+0.070}$	105.155 105.020								10560		10580		105115
SF-1□	$110_{-0.054}$	$115^{+0.035}$	$115^{+0.120}_{+0.070}$	110.115 110.020								11060		11080		110115
SF-1□	$120_{-0.054}$	$125^{+0.040}$	$125^{+0.170}_{+0.100}$	120.210 120.070	0.264 0.070	2.465 2.415						12060		12080	120100	
SF-1□	$125_{-0.063}$	$130^{+0.040}$	$130^{+0.170}_{+0.100}$	125.210 125.070	0.273 0.070							12560			125100	125115
SF-1□	$130_{-0.063}$	$135^{+0.040}$	$135^{+0.170}_{+0.100}$	130.210 130.070								13060		13080	130100	
SF-1□	$140_{-0.063}$	$145^{+0.040}$	$145^{+0.170}_{+0.100}$	140.210 140.070								14060		14080	140100	
SF-1□	$150_{-0.063}$	$155^{+0.040}$	$155^{+0.170}_{+0.100}$	150.210 150.070								15060		15080	150100	
SF-1□	$160_{-0.063}$	$165^{+0.040}$	$165^{+0.170}_{+0.100}$	160.210 160.070								16060		16080	160100	160115
SF-1□	$180_{-0.063}$	$185^{+0.046}$	$185^{+0.210}_{+0.130}$	180.216 180.070	0.279 0.070	2.465 2.415								18080	180100	
SF-1□	$190_{-0.072}$	$195^{+0.046}$	$195^{+0.210}_{+0.130}$	190.216 190.070	0.288 0.070									19080	190100	
SF-1□	$200_{-0.072}$	$205^{+0.046}$	$205^{+0.210}_{+0.130}$	200.016 200.070										20080	200100	
SF-1□	$220_{-0.072}$	$225^{+0.046}$	$225^{+0.210}_{+0.130}$	220.216 220.070								20060		22080	220100	
SF-1□	$250_{-0.072}$	$255^{+0.052}$	$255^{+0.260}_{+0.170}$	250.222 250.070	0.294 0.070	2.465 2.415								25080	250100	
SF-1□	$260_{-0.081}$	$265^{+0.052}$	$265^{+0.260}_{+0.170}$	260.222 260.070	0.303 0.070									26080	260100	
SF-1□	$280_{-0.081}$	$285^{+0.052}$	$285^{+0.260}_{+0.170}$	280.222 280.070										28080	280100	
SF-1□	$300_{-0.081}$	$300^{+0.052}$	$300^{+0.260}_{+0.170}$	300.222 300.070												

SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制翻边轴套
Metric Standard Flange Bushing

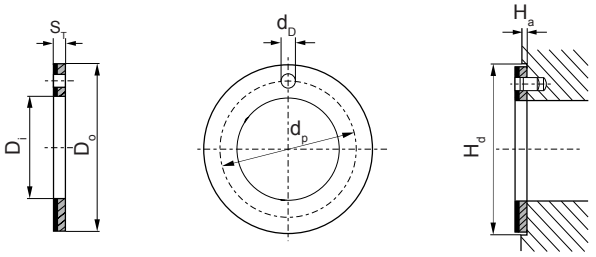


S_3	1.0	1.5	2.0	2.5
r	$1^{-0.5}$	1±0.5	1.5±0.5	2±0.5

※标准翻边套标注方式：Standard Flange Bushing Label Mode SF–1□F 06040

单位unit:mm

型号规格 Designation	轴径 D_s	座孔(H7) D_H	外径公差 D_O	压装后内孔公差 $D_{i,a}$	配合间隙 C_O	壁厚 S_3	尺寸				
							D_i	D_o	D_{fi}±0.5	B±0.25	S_{fi}-0.2
SF-1□F 06040	$6^{-0.013}_{-0.028}$	$8^{+0.015}$	$8^{+0.055}_{+0.025}$	6.055 5.990	0.077 0.000	1.005 0.980	6	8	12	4	1
SF-1□F 06070										7	
SF-1□F 08055	$8^{-0.013}_{-0.028}$	$10^{+0.015}$	$10^{+0.055}_{+0.025}$	8.055 7.990	0.083 0.003		8	10	15	5.5	
SF-1□F 08075										7.5	
SF-1□F 10070	$10^{-0.016}_{-0.034}$	$12^{+0.018}$	$12^{+0.055}_{+0.025}$	10.058 9.990	0.086 0.003		10	12	18	7	
SF-1□F 10090										9	
SF-1□F 10120										12	
SF-1□F 12070	$12^{-0.016}_{-0.034}$	$14^{+0.018}$	$14^{+0.065}_{+0.030}$	12.058 11.990	0.092 0.006		12	14	20	7	
SF-1□F 12090										9	
SF-1□F 12120										12	
SF-1□F 14120	$14^{-0.016}_{-0.043}$	$16^{+0.018}$	$16^{+0.065}_{+0.030}$	14.058 13.990			14	16	22	12	
SF-1□F 14170										17	
SF-1□F 15090	$15^{-0.016}_{-0.034}$	$17^{+0.018}$	$17^{+0.065}_{+0.030}$	15.058 14.990			15	17	23	9	
SF-1□F 15120										12	
SF-1□F 15170										17	
SF-1□F 16120	$16^{-0.016}_{-0.034}$	$18^{+0.018}$	$18^{+0.065}_{+0.030}$	16.058 15.990			16	18	24	12	
SF-1□F 16170										17	
SF-1□F 18120	$18^{-0.016}_{-0.034}$	$20^{+0.021}$	$20^{+0.075}_{+0.035}$	18.061 17.990	0.095 0.006		18	20	26	12	
SF-1□F 18170										17	
SF-1□F 18200										20	
SF-1□F 20115	$20^{-0.020}_{-0.041}$	$23^{+0.021}$	$23^{+0.075}_{+0.035}$	20.071 19.990	0.112 0.010	1.505 1.475	20	23	30	11.5	1.5
SF-1□F 20165										16.5	
SF-1□F 20215										21.5	
SF-1□F 22150	$22^{-0.020}_{-0.041}$	$25^{+0.021}$	$25^{+0.075}_{+0.035}$	22.071 21.990			22	25	32	15	
SF-1□F 22200										20	
SF-1□F 25115	$25^{-0.020}_{-0.041}$	$28^{+0.021}$	$28^{+0.075}_{+0.035}$	25.071 24.990			25	28	35	11.5	
SF-1□F 25165										16.5	
SF-1□F 25215										21.5	
SF-1□F 30160	$30^{-0.025}_{-0.050}$	$34^{+0.025}$	$34^{+0.075}_{+0.035}$	30.285 29.990	0.126 0.010	2.005 1.970	30	34	42	16	2
SF-1□F 30260										26	
SF-1□F 35160	$35^{-0.025}_{-0.050}$	$39^{+0.025}$	$39^{+0.085}_{+0.045}$	35.085 34.990	0.135 0.015		35	39	47	16	
SF-1□F 35260	$40^{-0.025}_{-0.050}$	44	$44^{+0.085}_{+0.045}$							26	
SF-1□F 40260	-0.025 -0.050	+0.025	+0.085 +0.045	40.085 39.990			40	44	53	26	
SF-1□F 40400										40	

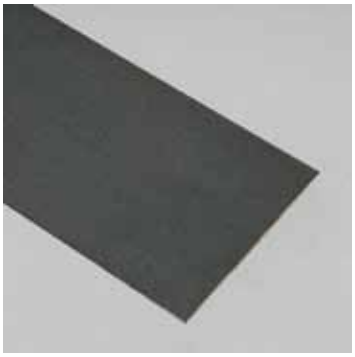


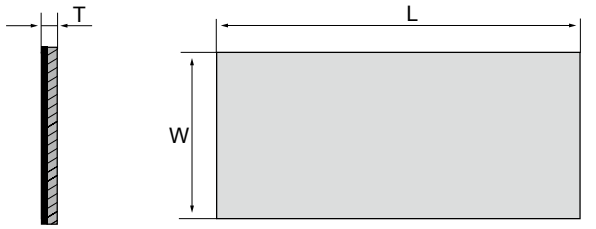
※标准垫片标注方式：Standard Washer Label Mode SF–1□W10

单位unit:mm

型号规格	轴径 D_s	垫片尺寸				安装尺寸		H_d+0.12
		D_i+0.25	D_o-0.25	S_T-0.05	d_p ± 0.125	d_D $^{+0.4}_{+0.1}$	H_a ± 0.2	
SF-1□W10	8	10	20	1.5	15	1.5	1	20
SF-1□W12	10	12	24		18			24
SF-1□W14	12	14	26		20	2		26
SF-1□W16	14	16	30		23			30
SF-1□W18	16	18	32		25			32
SF-1□W20	18	20	36		28	3		36
SF-1□W22	20	22	38		30			38
SF-1□W24	22	24	42		33			42
SF-1□W26	24	26	44		35			44
SF-1□W28	26	28	48		38	4		48
SF-1□W32	30	32	54		43			54
SF-1□W38	36	38	62		50			62
SF-1□W42	40	42	66		54			66
SF-1□W48	46	48	74	2	61		1.5	74
SF-1□W52	50	52	78		65			78
SF-1□W62	60	62	90		76			90

SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制滑板
Metric Standard Strip



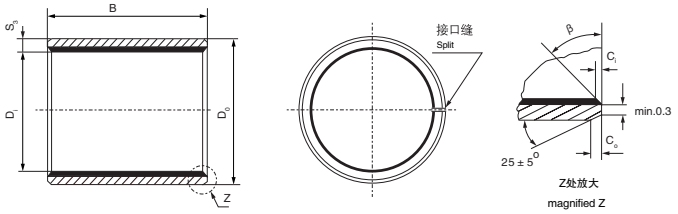


※标准板材标注方式：Standard Strip Label Mode SF–1□P 010130

单位unit:mm

型号规格 Designation	长度 Length L $^{+5.0}_{0}$	宽度 Width W $^{+2.0}_{0}$	厚度 Thickness T $^{0}_{-0.050}$
SF–1□P 010130	500	130	1.0
SF–1□P 015130	500	130	1.5
SF–1□P 020130	500	130	2.0
SF–1□P 025130	500	130	2.5

SF-1/1W/1B/1D/1T/1P/1S/1SS 标准英制直套
Inch Standard Cylindrical Bushing



S_3	C_o	C_i	β
0.0315	0.008-0.030	0.002-0.018	30° ± 5°
0.0472	0.012-0.035	0.006-0.022	30° ± 5°
0.0630	0.015-0.040	0.008-0.032	30° ± 5°

S_3	C_o	C_i	β
0.0787	0.030-0.060	0.008-0.032	30° ± 5°
0.0945	0.050-0.095	0.020-0.043	45° ± 5°

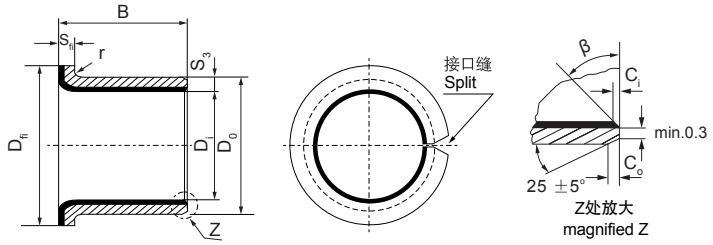
※标准英制直套标注方式：Standard Inch Bushing Label Mode SF−1□ 02DU02

单位unit: inch

轴径 D_s	座孔 H7 D_H	压装后内孔公差 $D_{I,a}$	配合间隙 D_D	长度B ± 0.010					
0.1243 0.1236	0.1878 0.1873	0.1268 0.1243	0.0032 0.0000	02IB02	02IB03				
0.1554 0.1547	0.2191 0.2186	0.1581 0.1556	0.0034 0.0002	025IB025	025IB04				
0.1865 0.1858	0.2503 0.2497	0.1893 0.1867	0.0035 0.0002	03IB03	03IB04	03IB06			
0.2490 0.2481	0.3128 0.3122	0.2518 0.2492	0.0037 0.0002	04IB04	04IB06				
0.3115 0.3106	0.3753 0.3747	0.3143 0.3117		05IB16	05IB08				
0.3740 0.3731	0.4691 0.4684	0.3769 0.3742	0.0038 0.0002	06IB03	06IB04	06IB06	06IB08	06IB10	06IB12
0.4365 0.4355	0.5316 0.5309	0.4394 0.4367	0.0039 0.0002	07IB08	07IB12				
0.4990 0.4980	0.5941 0.5934	0.5019 0.4992		08IB04	08IB06	08IB08	08IB10	08IB12	08IB14
0.5615 0.5605	0.6566 0.6559	0.5644 0.5617		19IB06	09IB08	09IB10	09IB12		
0.6240 0.6230	0.7192 0.7184	0.6270 0.6242	0.0040 0.0002	10IB04	10IB08	10IB10	10IB12	10IB14	10IB16
0.6865 0.6855	0.7817 0.7809	0.6895 0.6867		11IB14					
0.7491 0.7479	0.8755 0.8747	0.7525 0.7493	0.0046 0.0002	12IB04	12IB06	12IB08	12IB10	12IB12	12IB16
0.8116 0.8104	0.9380 0.9372	0.8150 0.8118		13IB12	13IB18				
0.8741 0.8729	1.0005 0.9997	0.8775 0.8743		14IB04	14IB06	14IB12	14IB16	14IB20	
0.9991 0.9979	1.1255 1.1247	1.0025 0.9993		16IB06	16IB08	16IB12	16IB16	16IB20	16IB24
1.1238 1.1226	1.2818 1.2808	1.1278 1.1240	0.0052 0.0002	18IB06	18IB10	18IB12	18IB16		
1.2488 1.2472	1.4068 1.4058	1.2528 1.2490	0.0056 0.0002	20IB06	20IB12	20IB14	20IB16	20IB20	20IB28
1.3738 1.3722	1.5318 1.5308	1.3778 1.3740		22IB12	22IB12	22IB24	22IB28		
1.4988 1.4972	1.6568 1.6558	1.5028 1.4990		24IB08	24IB16	24IB18	24IB20	24IB24	24IB32
1.6238 1.6222	1.7818 1.7808	1.6278 1.6240		26IB16	26IB24				
1.7487 1.7471	1.9381 1.9371	1.7535 1.7489	0.0064 0.0002	28IB16	28IB24	28IB32			

单位unit: inch

轴径 D_s	座孔 H7 D_H	压装后内孔公差 $D_{i,a}$	配合间隙 D_D	长度B ± 0.010								
1.8737 1.8721	2.0633 2.0621	1.8787 1.8739	0.0066 0.0002	30IB12	30IB16	30IB36						
1.9987 1.9969	2.1883 2.1871	2.0037 1.9989	0.0068 0.0002	32IB08	32IB16	32IB24	32IB28	32IB32	32IB40			
2.1257 2.1239	2.3130 2.3118	2.1326 2.1262	0.0087 0.0005	34IB48								
2.2507 2.2489	2.4377 2.4365	2.2573 2.2509		36IB28	36IB32	36IB40	36IB48	36IB56	36IB60	36IB64	36IB72	
2.5011 2.4993	2.6881 2.6869	2.5077 2.5013	0.0084 0.0002	40IB16	40IB26	40IB32	40IB40	40IB48	40IB56	40IB60	40IB64	40IB72
2.7500 2.7482	2.9370 2.9358	2.7566 2.7502		44IB32	44IB36	44IB40	44IB48	44IB56	44IB60	44IB64	44IB72	44IB76
2.8752 2.8734	3.0623 3.0610	2.8819 2.8754	0.0085 0.0002	46IB32	46IB36	46IB40	46IB48	46IB56	46IB60	46IB64	46IB72	46IB76
3.0000 2.9982	3.1872 3.1858	3.0068 3.0062	0.0086 0.0002	48IB32	48IB36	48IB48	48IB48	48IB56	48IB60	48IB64	48IB72	48IB76
3.2500 3.2480	3.4375 3.4358	3.2568 3.2502	0.0088 0.0002	52IB32	52IB36	52IB48	52IB48	52IB56	52IB60	52IB64	52IB72	52IB76
3.5000 3.4978	3.6872 3.6858	3.5068 3.5002		56IB32	56IB36	56IB48	56IB48	56IB56	56IB60	56IB64	56IB72	56IB76
3.6250 3.6228	3.8122 3.8108	3.6318 3.6252		58IB32	58IB36	58IB48	58IB48	58IB56	58IB60	58IB64	58IB72	58IB76
3.7500 3.7478	3.9372 3.9358	3.7568 3.7502		60IB32	60IB36	60IB48	60IB48	60IB56	60IB60	60IB64	60IB72	60IB76
4.0000 3.9978	4.1872 4.1858	4.0068 4.0002	0.0090 0.0002	64IB32	64IB36	64IB48	64IB48	64IB56	64IB60	64IB64	64IB72	64IB76
4.2500 4.2478	4.4372 4.4358	4.2568 4.2502		68IB32	68IB36	68IB48	68IB48	68IB56	68IB60	68IB64	68IB72	68IB76
4.3750 4.3728	4.5622 4.5608	4.3818 4.3752		70IB32	70IB36	70IB48	70IB48	70IB56	70IB60	70IB64	70IB72	70IB76
4.5000 4.4978	4.6872 4.6858	4.5068 4.5002		72IB32	72IB36	72IB48	72IB48	72IB56	72IB60	72IB64	72IB72	72IB76
4.7500 4.7578	4.9374 4.9358	4.7572 4.7502	0.0094 0.0002	76IB32	76IB36	76IB48	76IB48	76IB56	76IB60	76IB64	76IB72	76IB76
4.9986 4.9961	5.1860 5.1844	5.0056 4.9988		80IB32	80IB36	80IB48	80IB48	80IB56	80IB60	80IB64	80IB72	80IB76
5.2500 5.2475	5.4374 5.4358	5.2570 5.2502		84IB32	84IB36	84IB48	84IB48	84IB56	84IB60	84IB64	84IB72	84IB76
5.5000 5.4975	5.6874 5.6858	5.5070 5.5002		88IB32	88IB36	88IB48	88IB48	88IB56	88IB60	88IB64	88IB72	88IB76
5.7500 5.7475	5.9374 5.9358	5.7570 5.7502	0.0095 0.0002	92IB32	92IB36	92IB40	92IB48	92IB56	92IB60	92IB64	92IB72	92IB76
6.0000 5.9975	6.1874 6.1858	6.0070 6.0002		96IB32	96IB36	96IB40	96IB48	96IB56	96IB60	96IB64	96IB72	96IB76
6.2500 6.2475	6.4374 6.4358	6.2570 6.2502		100IB32	100IB36	100IB40	100IB48	100IB56	100IB60	100IB64	100IB72	100IB76
6.5000 6.4975	6.6874 6.6858	6.5070 6.5002		104IB32	104IB36	104IB40	104IB48	104IB56	104IB60	104IB64	104IB72	104IB76
6.7500 6.7475	6.9374 6.9358	6.7570 6.7502		108IB32	108IB36	108IB40	108IB48	108IB56	108IB60	108IB64	108IB72	108IB76
6.9954 9.9929	7.1830 7.1812	7.0026 6.9956	0.0097 0.0002	112IB32	112IB36	112IB40	112IB48	112IB56	112IB60	112IB64	112IB72	112IB76

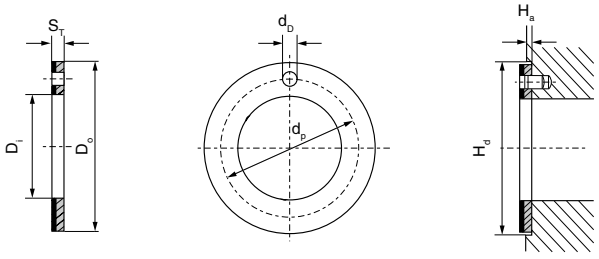


※标准英制翻边套标注方式：Standard Inch Flange Bushing Label Mode SF–1□F 06040

单位unit: inch

轴径 D_s	座孔 H7 D_H	压装后内孔公差$D_{i,a}$	配合间隙 D_D	法兰尺寸 D_{f1}	法兰厚度 S_{f1}	长度B ± 0.010			
0.3750 0.3740	0.4691 0.4684	0.3779 0.3752	0.0039 0.0002	0.7075 0.6675	0.052 0.044	06FIB04	06FIB06	06FIB08	06FIB12
0.5000 0.4990	0.5941 0.5934	0.5029 0.5002	0.0039 0.0002	0.8325 0.7925	0.052 0.044	08FIB04	08FIB06	08FIB08	08FIB12
0.6250 0.6240	0.7192 0.7184	0.6280 0.6252	0.0040 0.0002	0.9575 0.9175	0.052 0.044	10FIB06	10FIB08	10FIB10	10FIB12
0.7500 0.7488	0.8755 0.8747	0.7534 0.7502	0.0046 0.0002	1.1450 1.1050	0.068 0.060	12FIB06	12FIB08	12FIB12	12FIB16
0.8750 0.8738	1.0005 0.9997	0.8787 0.8752	0.0046 0.0002	1.2200 1.1800	0.068 0.060	14FIB08	14FIB12	14FIB16	14FIB20
1.0000 0.9988	1.1255 1.1247	1.0034 1.0002	0.0046 0.0002	1.3950 1.3550	0.068 0.060	16FIB08	16FIB12	16FIB16	16FIB20
1.2500 1.2484	1.4068 1.4058	1.2540 1.2502	0.0056 0.0002	1.7700 1.7300	0.083 0.075	20FIB16	20FIB20	20FIB24	
1.5000 1.4984	1.6568 1.6558	1.5040 1.2002	0.0056 0.0002	2.0200 1.9800	0.083 0.075	24FIB16	24FIB24	24FIB32	
1.7500 1.7484	1.9381 1.9371	1.7548 1.7502	0.0064 0.0002	2.3950 2.3550	0.098 0.090	28FIB16	28FIB24	28FIB32	

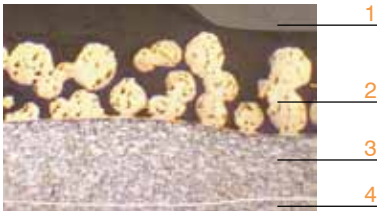
SF-1WC 英制标准垫片
inch Standard Washer



※标准英制垫片标注方式：Standard Inch Washer Label Mode SF–1□W DU06

单位unit: inch

规格 Standard No.	垫片尺寸 Washer size				安装尺寸 Installation size		
	D_i+0.010	D_o-0.010	S_T	d_p-0.010	d_D+0.010	H_a ± 0.010	H_d+0.010
SF-1 WC06IB	0.500	0.875	0.0630 0.0610	0.692	0.067	0.04	0.875
SF-1 WC07IB	0.562	1.000		0.786			1.000
SF-1 WC08IB	0.625	1.125		0.880	0.099		1.125
SF-1 WC09IB	0.687	1.187		0.942			1.187
SF-1 WC10IB	0.750	1.250		1.005			1.250
SF-1 WC11IB	0.812	1.375		1.009			1.375
SF-1 WC12IB	0.875	1.500		1.192	0.130		1.500
SF-1 WC13IB	0.937	1.625		1.286			1.625
SF-1 WC14IB	1.000	1.750		1.380			1.750
SF-1 WC16IB	1.125	2.000		1.567	0.161		2.000
SF-1 WC18IB	1.250	2.125		1.692			2.125
SF-1 WC20IB	1.375	2.250		1.817			2.250
SF-1 WC22IB	1.500	2.500		2.005	0.192		2.500
SF-1 WC24IB	1.625	2.625		2.130		0.07	2.625
SF-1 WC26IB	1.750	2.750		2.255			2.750
SF-1 WC28IB	2.000	3.000	0.0930 0.0910	2.505			3.000
SF-1 WC30IB	2.125	3.125		2.630			3.125
SF-1 WC32IB	2.250	3.250		2.755			3.250



1.聚甲醛与纤维混合物　2.球形青铜粉
3.钢背　4.电镀层
1.POM with fiber　2.Porous bronze
3.Steel backing　4.Copper–plating

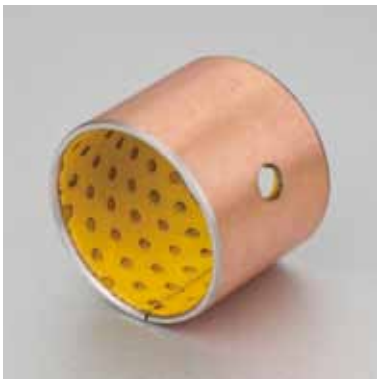
SF-2 碳钢基边界无铅自润滑轴承
Marginal Pb-free self-lubricating bearing

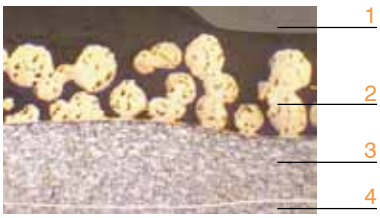
该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制改性聚甲醛。在边界润滑条件下可长期使用而不加油，耐磨层表面有储油坑。产品广泛应用于冶金机械、矿山机械、水利机械、汽机车、建筑机械、农用机械、轧钢行业等。

SF-2 Marginal Pb-free self-lubricating bearing is used steel-backing as its structure, sintered porous bronze as its interlayer, surface inlaid the modified POM. Suitable for marginally lubricated and dry operation on the conditions of lubrication indents grease. It has been widely applied to metallurgical machinery, Mine machinery, water conservancy machinery, vapor locomotive, building machinery, agriculture machinery, steel rolling industry etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	脂润滑 Grease lubrication	2.5m/s
最高PV值 Max PV Value Limit	脂润滑 Grease lubrication	2.8N/mm^2 · m/s
摩擦系数 μ Friction coefficient	脂润滑 Grease lubrication	0.05 ~ 0.25
使用温度 Working temperature		–40℃ ~ +130℃
导热系数 Thermal conductivity		4W/m · K
热膨胀系数 Coefficient of thermal expansion		11 × 10^{-6}/K





1.聚甲醛与纤维混合物　2.球形青铜粉
3.钢背　4.电镀层
1.POM with fiber　2.Porous bronze
3.Steel backing　4.Copper–plating

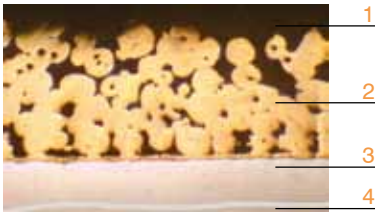
SF-2Y 碳钢基边界无铅自润滑轴承
Marginal Pb-free self-lubricating bearing

该产品与SF–2具有相同结构和使用性能，在边界润滑条件下可长期使用而不加油，耐磨层表面有储油坑。产品广泛应用于冶金机械、矿山机械、水利机械、汽机车、建筑机械、农用机械、轧钢行业等。

SF-2Y has the same structure and functional performance with SF-2. It can work long time without oil in the condition of prelubricated with lubrication indents.Widely applied to metallurgy machinery, Mining machinery, water conservancy machinery, automobile, building machinery, agriculture machinery, rolling steel industry etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	脂润滑 Grease lubrication	2.5m/s
最高PV值 Max PV Value Limit	脂润滑 Grease lubrication	2.8N/mm^2 · m/s
摩擦系数 μ Friction coefficient	脂润滑 Grease lubrication	0.05 ~ 0.25
使用温度 Working temperature		–40℃ ~ +130℃
导热系数 Thermal conductivity		4W/m · K
热膨胀系数 Coefficient of thermal expansion		11 × 10^{-6}/K



1.聚四氟乙烯与铅及其他填充混合物
2.球形青铜粉　3.钢背　4.电镀层
1.PTFE with lead　2.Porous bronze
3.Steel backing　4.Tin–plating

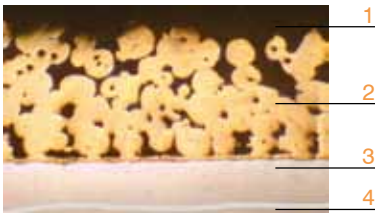
SF-2S 碳钢基边界无铅自润滑轴承
Marginal Pb-free self-lubricating bearing

该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制以缩醛树脂/亲油性纤维的特殊树脂。具有摩擦系数低、耐磨性能好、无油条件下润滑的特点。产品广泛应用于卷场机、推土机、印染机、采煤机、冲床、吊车/行车高空作业等领域。

SF-2S Marginal Pb-free self-lubricating bearing based on steel-backing, sintered porous bronze as its interlayer, surface rolled by acetal resin and polymer material constaining oleophylicity fiber and perform well on low friction factor, well wear performance and oil free condition lubrication. It has been widely applied to winding engines, printing and dyeing machinery, coal-cutters, punch, winch truck, traveling crane etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	110N/mm^2
最高线速度 V Max Sliding Speed	脂润滑 Grease lubrication	2.5m/s
最高PV值 Max PV Value Limit	脂润滑 Grease lubrication	3.2N/mm^2 · m/s
摩擦系数 μ Friction coefficient	脂润滑 Grease lubrication	0.03 ~ 0.20
使用温度 Working temperature		–60℃ ~ +130℃
导热系数 Thermal conductivity		4W/m · K
热膨胀系数 Coefficient of thermal expansion		11 × 10^{-6}/K



1.聚四氟乙烯与铜的混合物　2.球形青铜粉
3.刚背　4.电镀层
1.PTFE with CU　2.Porous bronze
3.Steel backing　4.Tin–plating

SF-2N 碳钢基边界无铅自润滑轴承
Marginal Pb-free self-lubricating bearing

该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制以缩醛树脂/亲油性纤维的特殊树脂。具有摩擦系数低、耐磨性能好、无油条件下润滑的特点。产品广泛应用于卷场机、推土机、印染机、采煤机、冲床、吊车/行车高空作业等领域。

SF-2N has the same structure and functional performance with SF-20. Suitable for marginal lubrication and dry operation conditions. It has been widely applied to metallurgy machinery, Mining machinery, water conservancy machinery, automobile, building machinery, agriculture equipment, rolling steel industry etc.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	脂润滑 Grease lubrication	2.5m/s
最高PV值 Max PV Value Limit	脂润滑 Grease lubrication	2.8N/mm^2 · m/s
摩擦系数 μ Friction coefficient	脂润滑 Grease lubrication	0.05 ~ 0.25
使用温度 Working temperature		–40℃ ~ +130℃
导热系数 Thermal conductivity		4W/m · K
热膨胀系数 Coefficient of thermal expansion		11 × 10^{-6}/K

轴套外径公差表
Bushing O.D.Tolerances Table

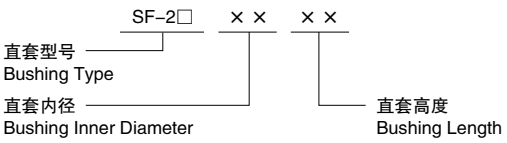
外径 ϕD Outer Diameter ϕD	外径公差 Outer Diameter Tolerance
ϕD≤10	+0.055 +0.025
10 < ϕD≤18	+0.065 +0.030
18 < ϕD≤30	+0.075 +0.035
30 < ϕD≤50	+0.085 +0.045
50 < ϕD≤80	+0.100 +0.055
80 < ϕD≤120	+0.120 +0.070
120 < ϕD≤180	+0.170 +0.100
180 < ϕD≤250	+0.210 +0.130
250 < ϕD≤305	+0.260 +0.170

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

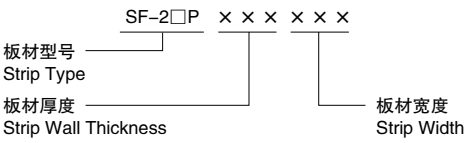
内径 ϕd Inner Diameter ϕd	壁厚公差t Wall Thickness Tolerance
8≤ ϕd≤18	$1.0\ ^{-0.020}_{-0.045}$
18 < ϕd≤25	$1.5\ ^{-0.025}_{-0.055}$
25 < ϕd < 45	$2.0\ ^{-0.030}_{-0.065}$
45≤ ϕd < 80	$2.5\ ^{-0.040}_{-0.085}$
ϕd≥80	$2.5\ ^{-0.055}_{-0.115}$

可供标准产品的标注方式
Standard Bushing Label Mode

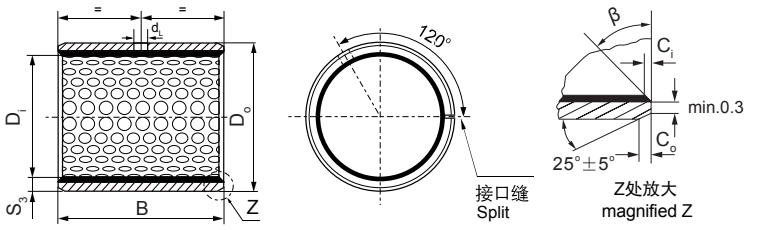
■ 直套标注方式 Bushing Label Mode



■ 板材标注方式 Strip Label Mode



■ 垫片标注方式 Washer Label Mode



内外倒角

S_3	C_o	C_i	β
1.0	0.6 ± 0.3	0.30 ± 0.2	30° ± 5°
1.5	0.7 ± 0.3	0.50 ± 0.2	30° ± 5°

S_3	C_o	C_i	β
2.00	1.2 ± 0.4	0.50 ± 0.3	30° ± 5°
2.50	1.8 ± 0.6	0.60 ± 0.3	45° ± 5°

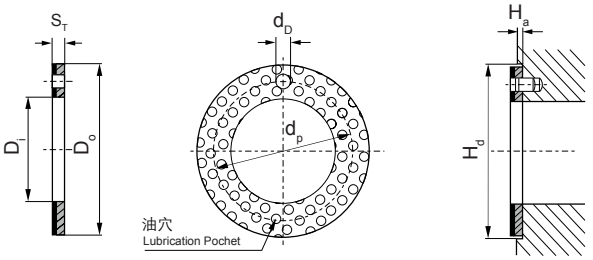
※标准直套标注方式：Standard Bushing Label Mode SF–2□ 1010

单位unit:mm

型号规格 Designation	轴径 D_s h8	座孔 H7 D_H	外径公差 D_O	压装后内孔公差 $D_{i,a}$	配合间隙 C_D	壁厚 S_3	油孔 d_L	长度 B $^{0}_{-0.40}$									
								10	15	20	25	30	35	40	45	50	60
SF-2□	$10_{0.022}$	$12^{+0.018}$	$12^{+0.065}_{+0.030}$	10.108 10.040	0.130 0.040	0.980 0.955	4	1010	1015	1020							
SF-2□	$12_{0.027}$	$14^{+0.018}$	$14^{+0.065}_{+0.030}$	12.108 12.040	0.135 0.040			1210	1215	1220							
SF-2□	$14_{0.027}$	$16^{+0.018}$	$16^{+0.065}_{+0.030}$	14.108 14.040					1415	1420							
SF-2□	$15_{0.027}$	$17^{+0.018}$	$17^{+0.065}_{+0.030}$	15.108 15.040					1515	1520	1525						
SF-2□	$16_{0.027}$	$18^{+0.018}$	$18^{+0.065}_{+0.030}$	16.108 16.040					1615	1620	1625						
SF-2□	$18_{0.027}$	$20^{+0.021}$	$20^{+0.075}_{+0.035}$	18.111 18.040	0.138 0.040				1815	1820	1825						
SF-2□	$20_{0.033}$	$23^{+0.021}$	$23^{+0.075}_{+0.035}$	20.131 20.050	0.164 0.050	1.475 1.445			2015	2020	2025	2030					
SF-2□	$22_{0.033}$	$25^{+0.021}$	$25^{+0.075}_{+0.035}$	22.131 22.050					2215		2225						
SF-2□	$25_{0.033}$	$28^{+0.021}$	$28^{+0.075}_{+0.035}$	25.131 25.050			6		2515	2520	2525	2530					
SF-2□	$28_{0.033}$	$32^{+0.025}$	$32^{+0.085}_{+0.045}$	28.155 28.060	0.188 0.060	1.970 1.935				2820		2830					
SF-2□	$30_{0.033}$	$34^{+0.025}$	$34^{+0.085}_{+0.045}$	30.155 30.060						3020	3025	3030		3040			
SF-2□	$35_{0.039}$	$39^{+0.025}$	$39^{+0.085}_{+0.045}$	35.155 35.060	0.194 0.060					3520		3530	3535	3540			
SF-2□	$40_{0.039}$	$44^{+0.025}$	$44^{+0.085}_{+0.045}$	40.155 40.060			8			4020		4030		4040		4050	
SF-2□	$45_{0.039}$	$50^{+0.025}$	$50^{+0.085}_{+0.045}$	45.195 45.080	0.234 0.080	2.460 2.415				4520		4530		4540	4545	4550	
SF-2□	$50_{0.039}$	$55^{+0.030}$	$55^{+0.100}_{+0.055}$	50.200 50.080	0.239 0.080							5030		5040		5050	5060
SF-2□	$55_{0.046}$	$60^{+0.030}$	$60^{+0.100}_{+0.055}$	55.200 55.080	0.246 0.080							5530		5540		5550	5560
SF-2□	$60_{0.046}$	$65^{+0.030}$	$65^{+0.100}_{+0.055}$	60.200 60.080								6030		6040		6050	6060

单位unit:mm

型号规格 Designation	轴径 D_S h8	座孔 H7 D_H	外径公差 D_O	压装后内孔公差 $D_{I,a}$	配合间隙 C_D	壁厚 S_3	油孔 d_L	长度B $^{0}_{-0.40}$								
								40	50	60	80	90	95	100	110	120
SF-2□	65 70 $^{-0.046}$	+0.030 70 75	+0.100 +0.055 70 75	65.200 65.080	0.246 0.080	2.460 2.415	8	6540		6560						
SF-2□	70 75 $^{-0.046}$	+0.030 75 80	+0.100 +0.055 75 80	70.200 70.080				7040	7050		7080					
SF-2□	75 80 $^{-0.046}$	+0.030 80 85	+0.100 +0.055 80 85	75.200 75.080				7540		7560	7580					
SF-2□	80 85 $^{-0.046}$	+0.035 85 90	+0.120 +0.070 85 90	80.265 80.100	0.313 0.100	2.450 2.385	9.5	8040		8060	8080					
SF-2□	85 90 $^{-0.054}$	+0.035 90 95	+0.120 +0.070 90 95	85.265 85.100	0.321 0.100			8540		8560	8580					
SF-2□	90 100 $^{-0.054}$	+0.035 95 105	+0.120 +0.070 95 105	90.265 90.100				9040		9060	9080	9090				
SF-2□	100 105 $^{-0.054}$	+0.035 105 110	+0.120 +0.070 105 110	100.265 100.100					10050		10080		10095			
SF-2□	105 110 $^{-0.054}$	+0.035 110 115	+0.120 +0.070 110 115	105.265 105.100						10560	10580		10595		105110	
SF-2□	110 120 $^{-0.054}$	+0.035 115 125	+0.120 +0.070 115 125	110.265 110.110						11060	11080		11095		110110	
SF-2□	120 125 $^{-0.054}$	+0.040 125 130	+0.170 +0.100 125 130	120.270 120.110	0.324 0.100					12060	12080				120110	
SF-2□	125 130 $^{-0.063}$	+0.040 130 135	+0.170 +0.100 130 135	125.270 125.110						12560					125110	
SF-2□	130 140 $^{-0.063}$	+0.040 135 145	+0.170 +0.100 135 145	130.270 130.110					13050	13060	13080			130100		
SF-2□	140 150 $^{-0.063}$	+0.040 145 155	+0.170 +0.100 145 155	140.270 140.110					14050	14060	14080			140100		
SF-2□	150 160 $^{-0.063}$	+0.040 155 165	+0.170 +0.100 155 165	150.270 150.110					15050	15060	15080			150100		
SF-2□	160 170 $^{-0.063}$	+0.040 165 175	+0.170 +0.100 165 175	160.270 160.110			9.5		16050	16060	16080			160100		
SF-2□	170 180 $^{-0.063}$	+0.040 175 185	+0.170 +0.100 175 185	170.270 170.110					17050		17080			170100		
SF-2□	180 190 $^{-0.063}$	+0.046 185 195	+0.210 +0.130 185 195	180.270 180.110	0.339 0.110				18050	18060	18080			180100		
SF-2□	190 200 $^{-0.072}$	+0.046 195 205	+0.210 +0.130 195 205	190.276 190.110					19050	19060	19080			190100		190120
SF-2□	200 220 $^{-0.072}$	+0.046 205 225	+0.210 +0.130 205 225	200.276 200.110					20050	20060	20080			200100		200120
SF-2□	220 240 $^{-0.072}$	+0.046 225 245	+0.210 +0.130 225 245	220.276 220.110			9.5		22050	22060	22080			220100		220120
SF-2□	240 250 $^{-0.072}$	+0.046 245 255	+0.210 +0.130 245 255	240.276 240.110					24050	24060	24080			240100		240120
SF-2□	250 260 $^{-0.072}$	+0.052 255 265	+0.260 +0.170 255 265	250.282 250.110	0.354 0.110				25050	25060	25080			250100		250120
SF-2□	260 280 $^{-0.081}$	+0.052 265 285	+0.260 +0.170 265 285	260.282 260.110					26050	26060	26080			260100		260120
SF-2□	280 300 $^{-0.081}$	+0.052 285 305	+0.260 +0.170 285 305	280.282 280.110					28050	28060	28080			280100		280120
SF-2□	-0.081	+0.052 305	+0.260 +0.170 305	300.282 300.110					30050	30060	30080			300100		300120

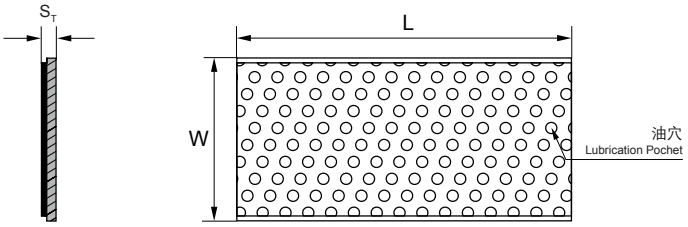


※标准垫片标注方式：Standard Washer Label Mode SF-2□W10

单位unit:mm

轴径 D_S	型号规格 Designation	垫片尺寸 Washer size				安装尺寸		
		D_i+0.25	D_o-0.25	S_T-0.05	$d_p \pm 0.125$	$d_D{}^{+0.4}_{+0.1}$	$H_a \pm 0.2$	H_d+0.12
8	SF-2□ W10	10	20	1.5	15	1.5	1	20
10	SF-2□ W12	12	24		18			24
12	SF-2□ W14	14	26		20	2		26
14	SF-2□ W16	16	30		23			30
16	SF-2□ W18	18	32		25			32
18	SF-2□ W20	20	36		28	3		36
20	SF-2□ W22	22	38		30			38
22	SF-2□ W24	24	42		33			42
24	SF-2□ W26	26	44		35			44
26	SF-2□ W28	28	48		38	4		48
30	SF-2□ W32	32	54		43			54
36	SF-2□ W38	38	62		50			62
40	SF-2□ W42	42	66		54			66
46	SF-2□ W48	48	74	2	61		1.5	74
50	SF-2□ W52	52	78		65			78
60	SF-2□ W62	62	90		76			90

SF-2/2Y 标准公制板材
Metric Standard Strip



※标准滑板标注方式：Standard Strip Label Mode SF-2□P 010130

单位unit:mm

型号规格 Designation	长度(L)±1	宽度(W)±1	厚壁(S_s)-0.05
SF-2□P 010130	500	150	1.0
SF-2□P 015130	500	150	1.5
SF-2□P 020130	500	150	2.0
SF-2□P 025130	500	150	2.5

该产品以优质低碳钢为基体，表面烧结青铜粉，适用于高载低速下的旋转，摇摆运动。具有摩擦系数低、耐磨性能好、使用寿命长、抗咬合性能好等特点，铜合金层可根据要求加工出各种类型的油穴、油槽。产品被广泛应用于矿山机械、汽机车、建筑机械、农用机械、轧钢机械等。

JF-800/720/700/20/930 Bimetallic self-lubricating bearing used high quality low-carbon steel plate as base, sintered porous bronze as its surface, suitable for rotatory oscillating, reciprocating movements on the conditions of high load.low speed, low friction, well wear resistance, long lifetime and better prevent from holding-on.The bronze layer surface can be machined with various of grooves, oil pockets in terms of different work condition. The product is widely used in mining machinery, automobile, building machinery, agriculture equipment, rolling steel industry etc.

※材料特性：Material Characterisitc

材料牌号 Material Trademark	合金成份 Alloy Composition	合金硬度 Alloy Hardness	国际标准 International Standard
JF–800	CuPb10Sn10	70 ~ 100HB	美国SAE–797/德国GLYCO 66/日本JIS–LBC3
JF–720	CuPb24Sn4	45 ~ 70HB	美国SAE–797/德国GLYCO 68/日本JIS–LBC6
JF–700	CuPb30	40 ~ 60HB	美国SAE–48/日本JIS–KJ3
JF–20	AlSn20Cu	30 ~ 45HB	美国SAE–783/德国GLYCO 74/日本JIS–AJL
JF–930	CuPb6.5P0.1	69 ~ 90HB	

※技术参数：Technical Data

性能指标 Performance index / 型号 Type		JF–800	JF–720	JF–700	JF–20	JF–930
最大承载 P(N/mm²) Max Load Capacity		150	130	120	100	150
拉伸强度（N/mm²） Tensile Strength		185	150	200	200	185
最大线速度（油润滑）V(m/s) Max Sliding Speed (Oil Lubrication)		5	10	10	25	5
摩擦系数 μ Friction coefficient		0.06 ~ 0.14	0.06 ~ 0.16	0.08 ~ 0.16	0.08 ~ 0.17	0.06 ~ 0.16
最高PV值 N/mm²・m/s Max PV Value Limit	脂润滑 Grease lubrication	2.8	2.8	2.5	–	2.8
	油润滑 Oil lubrication	20	10	8	6	–

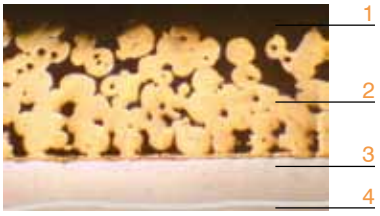
※应用特性：Application Characteristics

材料牌号 Material Trademark	适用条件	适用场合
JF–800	很高的耐疲劳强度和承载能力，抗冲击能力强，耐磨性、耐腐蚀性好 Very good resistance to fatigue strenth, with high shock resistance and good corrosion resisitance.	中速、高冲击载荷的衬套，内燃机连杆活塞销衬套 Fit for middle load, high speed, bushes,washer and connecting rod bearing in internal combustion engine used in machinical equipment and high shock bushing.
JF–720	较高的耐疲劳强度和承载能力、较好的滑动性能，易受润滑油腐蚀 Good resistance to fatigue strength and high load capacity,good performance of sliding, liable to be corrupted by lubricationg oil.	中载中速、高速内燃机主轴套和连杆轴套 middle load middle speed, principle axis of internal combustion engine.
JF–700	较高的耐疲劳强度、承载能力、抗冲击能力 Good resistance to fatigue strength,load capacity, shock resistance and corrosion.	用于内燃机主轴和连杆轴承、止推垫片 Principle axis of internal combustion engine, connecting rod bushing.
JF–20	良好的抗咬性、异物埋没性，工作表面镀软合金层 Good performance of anti–seizing, covering eyewinker, soft alloy be plated on working surface.	高速中低载荷的内燃机主轴套，连杆轴套 High speed, middle or low load, principle axis internal combustion engine
JF–930	中等的耐疲劳强度和承载能力，良好的抗腐蚀性能，较好轴承滑动性能。 Moderate fatigue strength, and load capacity, good performance of bearing sliding.	高速低载的内燃机轴瓦、气压机、制冷机轴套 High speed, low load, internal combustion engine half bearing, bushing used in compressing and refrigerating machine.

FB08G 双金属固体自润滑轴承
Bimetallic solid self-lubricating bearing

该产品以优质低碳钢为基体，表面烧结青铜粉，适用于高载低速下的旋转，摇摆运动。具有摩擦系数低、耐磨性能好、使用寿命长、抗咬合性能好等特点，铜合金层可根据要求加工出各种类型的油穴、油槽。产品被广泛应用于矿山机械、汽机车、建筑机械、农用机械、轧钢机械等。

FB08G Bimetallic solid self-lubricating bearing based on high quality low-carbon steel backing, sintered porous bronze as its surface. Surface of alloy is rolled the spirally diamond type of the oil pockets, embedded lead and molybdenum disulfide, the lubrication area of the bearing surface is being about 25%. Performed well by low friction coefficient, good lubricating action and wear resistant action. Particularly suit for starting motor for automobiles, generators, hoisting machines and metallurgical machinery.



1.聚四氟乙烯与纤维混合物　2.球形青铜粉
3.钢背　4.电镀层
1.PTFE with fibre　2.Porous bronze
3.Steel backing　4.Tin–plating

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	干摩擦 Dry friction	70N/mm^2
	油润滑 Oil lubrication	90N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	0.4m/s
	油润滑 Oil lubrication	2.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	2.6N/mm^2 · m/s
	油润滑 Oil lubrication	15N/mm^2 · m/s
摩擦系数 μ Friction coefficient	干摩擦 Dry friction	＜0.22
	油润滑 Oil lubrication	＜0.08
使用温度 Working temperature	干摩擦 Dry friction	250℃
	油润滑 Oil lubrication	200℃
导热系数 Thermal conductivity		76W/m · K
热膨胀系数 Coefficient of thermal expansion		22×10^{-6}/K

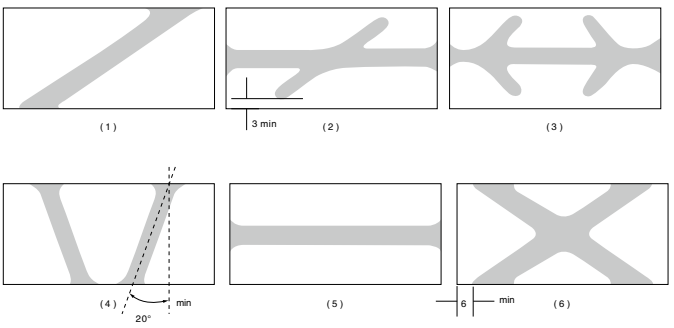
轴套外径公差表
Bushing O.D.Tolerances Table

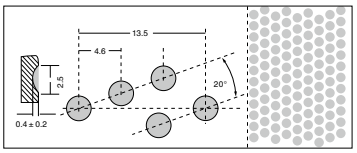
外径 ϕD Outer Diameter ϕD	外径公差 Outer Diameter Tolerance
ϕD≤10	+0.055 +0.025
10 < ϕD≤18	+0.065 +0.030
18 < ϕD≤30	+0.075 +0.035
30 < ϕD≤50	+0.085 +0.045
50 < ϕD≤80	+0.100 +0.055
80 < ϕD≤120	+0.120 +0.070
120 < ϕD≤180	+0.170 +0.100

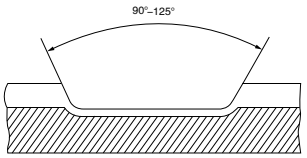
轴套壁厚公差
Bushing Wall Thickness Tolerances Table

内径 ϕd Inner Diameter ϕd	壁厚公差t Wall Thickness Tolerance
8 < ϕd≤18	$1.0\ ^{0}_{-0.030}$
18 < ϕd≤25	$1.5\ ^{0}_{-0.030}$
25 < ϕd < 45	$2.0\ ^{0}_{-0.035}$
45≤ ϕd≤150	$2.5\ ^{0}_{-0.050}$

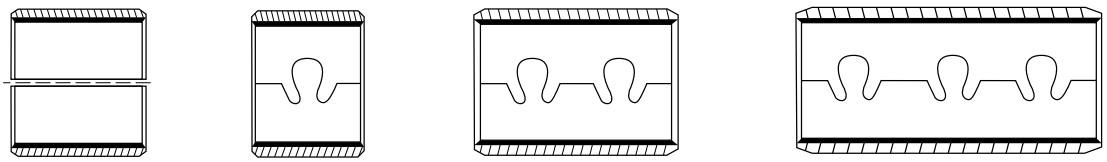
双金属自润滑轴承的油槽油穴形式
Type for Bi-Metaltic Bushing Grooves and Indents

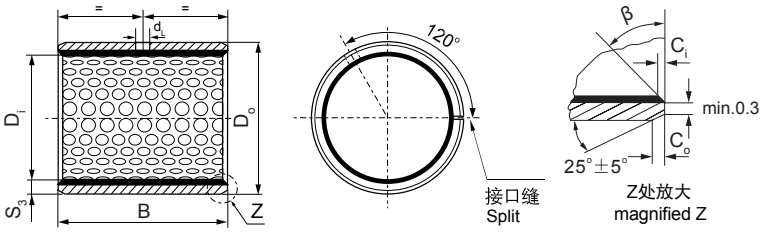






双金属自润滑轴承的搭扣形式
Lock Types for Bi-Metaltic Bushing





内外倒角

S_3	C_o	C_i	β
0.75	0.5 ± 0.3	0.25 ± 0.2	35° ± 5°
1.00	0.6 ± 0.3	0.30 ± 0.2	35° ± 5°
1.50	0.7 ± 0.3	0.50 ± 0.3	35° ± 5°

S_3	C_o	C_i	β
2.00	1.2 ± 0.4	0.50 ± 0.3	30° ± 5°
2.50	1.8 ± 0.6	0.60 ± 0.3	45° ± 5°

※标准直套标注方式：Standard Bushing Label Mode JF−800□ 1010

单位unit:mm

型号规格 Designation	D_I	D_O	轴径(h8) D_s	座(H7) D_H	压装后内孔公差 $D_{i,a}$	配合间隙 C_D	壁厚 S_3	油孔 d_L	B $^{0}_{-0.40}$ 10	15	20	25	30	40	50
JF-800 □	10	12	$10^{}_{-0.022}$	$12^{+0.018}$	+0.148 +0.010	0.170 0.010	0.995 0.935	4	1010	1015	1020				
JF-800 □	12	14	$12^{}_{-0.027}$	$14^{+0.018}$		0.175 0.010			1210	1215	1220				
JF-800 □	14	16	$14^{}_{-0.027}$	$16^{+0.018}$					1410	1415	1420				
JF-800 □	15	17	$15^{}_{-0.027}$	$17^{+0.018}$					1510	1515	1520				
JF-800 □	16	18	$16^{}_{-0.027}$	$18^{+0.018}$					1610	1615	1620				
JF-800 □	18	20	$18^{}_{-0.027}$	$20^{+0.021}$	+0.151 +0.010	0.178 0.010			1810	1815	1820	1825			
JF-800 □	20	23	$20^{}_{-0.033}$	$23^{+0.021}$	+0.161 +0.020	0.194 0.020	1.490 1.430		2010	2015	2020	2025			
JF-800 □	22	25	$22^{}_{-0.033}$	$25^{+0.021}$				6	2210	2215	2220	2225			
JF-800 □	24	27	$24^{}_{-0.033}$	$27^{+0.021}$					2410	2415	2420	2425	2430		
JF-800 □	25	28	$25^{}_{-0.033}$	$28^{+0.021}$						2515	2520	2525	2530		
JF-800 □	26	30	$26^{}_{-0.033}$	$30^{+0.021}$	+0.181 +0.040	0.214 0.040				2615	2620	2625	2630		
JF-800 □	28	32	$28^{}_{-0.033}$	$32^{+0.025}$	+0.185 +0.040	0.218 0.040	1.980 1.920			2815	2820	2825	2830	2840	
JF-800 □	30	34	$30^{}_{-0.033}$	$34^{+0.025}$						3015	3020	3025	3030	3040	
JF-800 □	32	36	$32^{}_{-0.039}$	$36^{+0.025}$		0.224 0.040				3215	3220	3225	3230	3240	
JF-800 □	35	39	$35^{}_{-0.039}$	$39^{+0.025}$							3520	3525	3530	3540	3550
JF-800 □	38	42	$38^{}_{-0.039}$	$42^{+0.025}$				8			3820	3825	3830	3840	3850
JF-800 □	40	44	$40^{}_{-0.039}$	$44^{+0.025}$							4020	4025	4030	4040	4050

型号规格 Designation	D_I	D_O	轴径(h8) D_s	座(H7) D_H	压装后内孔公差 $D_{i,a}$	配合间隙 C_D	壁厚 S_3	油孔 d_L	B $^{0}_{-0.40}$							
									25	30	40	50	60	80	90	100
JF-800 □	45	50	$45^{\ }_{-0.039}$	$50^{+0.025}$	+0.225 +0.080	0.264 0.080	2.460 2.400	8	4525	4530	4540	4550				
JF-800 □	50	55	$50^{\ }_{-0.039}$	$55^{+0.030}$	+0.230 + 0.080	0.269 0.080				5030	5040	5050	5060			
JF-800 □	55	60	$55^{\ }_{-0.046}$	$60^{+0.030}$		0.276 0.080				5530	5540	5550	5560			
JF-800 □	60	65	$60^{\ }_{-0.046}$	$65^{+0.030}$						6030	6040	6050	6060			
JF-800 □	65	70	$65^{\ }_{-0.046}$	$70^{+0.030}$						6530	6540	6550	6560			
JF-800 □	70	75	$70^{\ }_{-0.046}$	$75^{+0.030}$						7030	7040	7050	7060	7080		
JF-800 □	75	80	$75^{\ }_{-0.046}$	$80^{+0.030}$				9.5		7530	7540	7550	7560			
JF-800 □	80	85	$80^{\ }_{-0.046}$	$85^{+0.035}$	+0.235 +0.080	0.281 0.080					8040	8050	8060	8080		
JF-800 □	85	90	$85^{\ }_{-0.054}$	$90^{+0.035}$		0.289 0.080				8530		8550	8560	8580		85100
JF-800 □	90	95	$90^{\ }_{-0.054}$	$95^{+0.035}$								9050	9060	9080		90100
JF-800 □	95	100	$95^{\ }_{-0.054}$	$100^{+0.035}$									9560	9580	9590	95100
JF-800 □	100	105	$100^{\ }_{-0.054}$	$105^{+0.035}$									10060	10080	10090	100100
JF-800 □	105	110	$105^{\ }_{-0.054}$	$110^{+0.035}$									10560	10580		105100
JF-800 □	110	115	$110^{\ }_{-0.054}$	$115^{+0.035}$									11060	11080		110100
JF-800 □	115	120	$115^{\ }_{-0.054}$	$120^{+0.035}$								11550		11580		
JF-800 □	120	125	$120^{\ }_{-0.054}$	$125^{+0.040}$	+0.240 +0.080							12050	12030			120100
JF-800 □	125	130	$125^{\ }_{-0.063}$	$130^{+0.040}$		0.303 0.080										125100
JF-800 □	130	135	$130^{\ }_{-0.063}$	$135^{+0.040}$									13060			130100
JF-800 □	135	140	$135^{\ }_{-0.063}$	$140^{+0.040}$									13560	13580		
JF-800 □	140	145	$140^{\ }_{-0.063}$	$145^{+0.040}$									14060	14080		140100
JF-800 □	150	155	$150^{\ }_{-0.063}$	$155^{+0.040}$									15060	15080		150100

FB090 青铜自润滑轴承
Bronze self-lubricating bearing

该产品以特殊配方的高密度铜合金带材为基体，表面轧制菱形油穴或半球形的油穴，具有密度高，承载压力大，耐磨性能好，使用寿命长。产品被广泛应用于起重机械、建筑机械、机床工业、采矿机械等领域。

FB090 Bronze self-lubricating bearings used a kind of high density broze alloy of special compositions as base, surface of alloy is rolled diamond type of the oil indents or half ball oil indents, this kind of bearing has higher density, load capacity, well wearing performance, longer lifetime. It has been widely used in many fields, such as hoist machines, building machinery, machine tool industry and mining machinery.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	120N/mm^2
	动载 Dynamic load	40N/mm^2
最高线速度 V Max Sliding Speed		2.0m/s
最高PV值 Max PV Value Limit		2.8N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.08 ~ 0.25
使用温度 Working temperature		–100℃ ~ +200℃
导热系数 Thermal conductivity		60W/m · K
热膨胀系数 Coefficient of thermal expansion		15 × 10^{-6}/K

FB092 青铜冲孔自润滑轴承
Bronze with through hole self-lubricating bearing

该产品CuSn8为基体，工作表面布满有规则油孔，具有承载高、耐磨性能好、摩擦系数低。产品被广泛应用于输送机、升降机、卷扬机、农用机械等。

FB092 Bronze punch hole self-lubricating bearing used CuSn8 as base, designed regular oil holes bestrewn working surface, it has high load capacity, well wearing resistance and low friction coefficient, if has been widely applied to transportation machinery, elecator, coiling machinery and agriculture equipment.

※技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	120N/mm^2
	动载 Dynamic load	40N/mm^2
最高线速度 V Max Sliding Speed		2.5m/s
最高PV值 Max PV Value Limit		2.8N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.08 ~ 0.25
使用温度 Working temperature		–100℃ ~ +200℃
导热系数 Thermal conductivity		60W/m · K
热膨胀系数 Coefficient of thermal expansion		15 × 10^{-6}/K

FB09G 青铜固体自润滑轴承
Bronze self-lubricating bearing

该产品CuSn8为基体，表面轧制螺旋角度菱形油穴，内嵌石墨或二硫化钼，润滑面积25%。具有摩擦系数小，良好的润滑性和抗磨性。产品被广泛应用于汽车起动电机，发电机，汽机车离合器等。

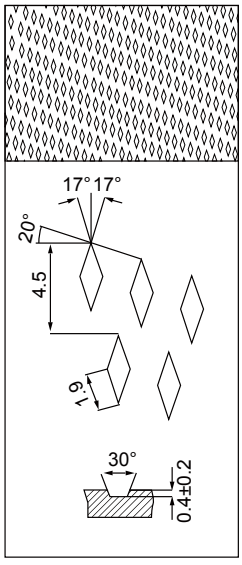
FB09G bronze solid self-lubricating bearing used CuSn8 as base, agglomerated by porous bronze powder, surface of alloy is rolled the spirally diamond type of the hole, embedded lead and molybdenum disulfide, the lubrication area of the bearing surface is being about 25%.Characterized by low friction coefficient, good lubricating action and wear resistant action. This type of bearing is particularly applied in starting motor for automobiles, generators, automotive clutch parts etc.

※技术参数：Technical Data

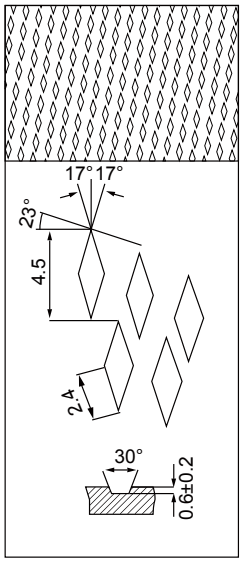
性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	120N/mm^2
	动载 Dynamic load	40N/mm^2
最高线速度 V Max Sliding Speed		2.5m/s
最高PV值 Max PV Value Limit		2.8N/mm^2 · m/s
摩擦系数 μ Friction coefficient		0.05 ~ 0.25
使用温度 Working temperature		−100℃ ~ +200℃
导热系数 Thermal conductivity		60W/m · K
热膨胀系数 Coefficient of thermal expansion		15 × 10^{-6}/K

油穴类型
Oil Pocket Type

内径 ϕd≤22
Inner Diameter ϕd≤22

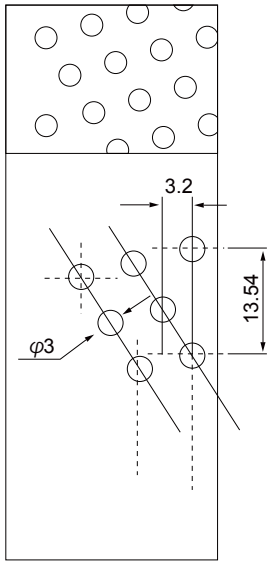


内径 ϕd＞22
Inner Diameter ϕd＞22

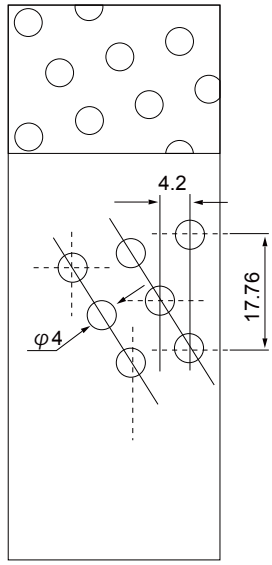


油穴类型
Oil Hole Type

内径 ϕd≤25
Inner Diameter ϕd≤25



内径 ϕd＞25
Inner Diameter ϕd＞25



轴套外径公差表
Bushing O.D.Tolerances Table

外径 ϕD Outer Diameter ϕD	外径公差 Outer Diameter Tolerance
ϕD≤10	$^{+0.055}_{+0.025}$
10 < ϕD≤18	$^{+0.065}_{+0.030}$
18 < ϕD≤30	$^{+0.075}_{+0.035}$
30 < ϕD≤50	$^{+0.085}_{+0.045}$
50 < ϕD≤80	$^{+0.100}_{+0.055}$
80 < ϕD≤120	$^{+0.120}_{+0.070}$
120 < ϕD≤180	$^{+0.170}_{+0.100}$
180 < ϕD≤250	$^{+0.210}_{+0.130}$

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

内径 ϕd Inner Diameter ϕd	壁厚公差t Wall Thickness Tolerance
ϕd≤10	$^{+0.036}_{0}$
10 < ϕd≤18	$^{+0.043}_{0}$
18 < ϕd≤30	$^{+0.052}_{0}$
30 < ϕd≤50	$^{+0.062}_{0}$
50 < ϕd≤80	$^{+0.074}_{0}$
80 < ϕd≤120	$^{+0.087}_{0}$
120 < ϕd≤180	$^{+0.100}_{0}$
180 < ϕd≤250	$^{+0.115}_{0}$

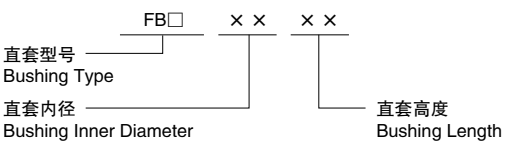
检验座孔公差表
Test Housing Tolerances Table

外径 ϕD Outer Diameter ϕD	0~10	18~30	30~50	50~80	80~120	120~180	180~250
座孔H7中值 Housing H7 Middle	D+0.009	D+0.011	D+0.013	D+0.015	D+0.018	D+0.020	D+0.023

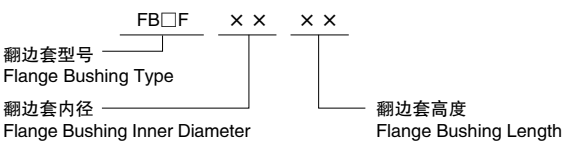
FB系列产品压入座孔h7中值，内孔精度达到 h9。
FB series products press into housing H7 middle, accuracy of inner diameter can reach H9.

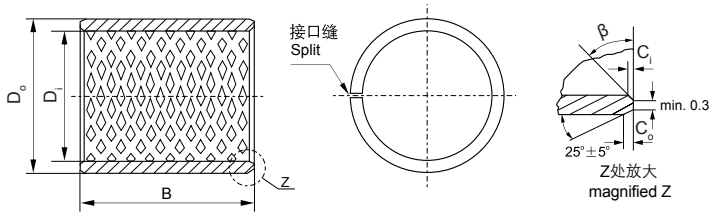
可供标准产品的标注方式
Standard Bushing Label Mode

■ 直套标注方式 Bushing Label Mode



■ 翻边套标注方式 Flange Bushing Label Mode





ID and OD chamfers

S_3	C_o	C_i	β
0.75	0.5 ± 0.3	0.25 ± 0.2	35° ± 5°
1.00	0.6 ± 0.3	0.30 ± 0.2	35° ± 5°
1.50	0.7 ± 0.3	0.50 ± 0.3	35° ± 5°

S_3	C_o	C_i	β
2.00	1.2 ± 0.4	0.50 ± 0.3	30° ± 5°
2.50	1.8 ± 0.6	0.60 ± 0.3	45° ± 5°

※标准直套标注方式：Standard Bushing Label Mode FB□ 1010

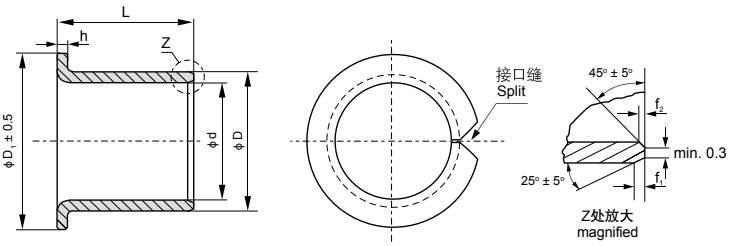
单位unit:mm

型号规格 Designation	内径 D_i	外径 D_O	B $^{0}_{-0.40}$												
			10	15	20	25	30	35	40	50	60	70	80	90	100
FB □	10	12	1010	1015	1020										
FB □	12	14	1210	1215	1220										
FB □	14	16	1410	1415	1420	1425									
FB □	15	17	1510	1515	1520	1525									
FB □	16	18	1610	1615	1620	1625									
FB □	18	20	1810	1815	1820	1825									
FB □	20	23	2010	2015	2020	2025									
FB □	22	25	2210	2215	2220	2225	2230								
FB □	24	27		2415	2420	2425	2430								
FB □	25	28		2515	2520	2525	2530								
FB □	28	31		2815	2820	2825	2830								
FB □	30	34		3015	3020	3025	3030	3035	3040						
FB □	32	36		3215	3220	3225	3230	3235	3240						
FB □	35	39		3515	3520	3525	3530	3535	3540						
FB □	40	44			4020	4025	4030	4035	4040	4050					
FB □	45	50			4520	4525	4530	4535	4540	4550					
FB □	50	55			5020	5025	5030	5035	5040	5050	5060				
FB □	55	60			5520	5525	5530	5535	5540	5550	5560				
FB □	60	65				6025	6030	6035	6040	6050	6060	6070			
FB □	65	70					6530	6535	6540	6550	6560	6570			
FB □	70	75					7030	7035	7040	7050	7060	7070	7080		
FB □	75	80					7530	7535	7540	7550	7560	7570	7580		
FB □	80	85					8030	8035	8040	8050	8060	8070	8080		
FB □	85	90					8530	8535	8540	8550	8560	8570	8580	8590	
FB □	90	95					9030	9035	9040	9050	9060	9070	9080	9090	
FB □	95	100							9540	9550	9560	9570	9580	9590	95100

单位unit:mm

型号规格 Designation	内径 D_i	外径 D_O	B $^{0}_{-0.40}$									
			25	30	35	40	50	60	70	80	90	100
FB □	100	105					10050	10060	10070	10080	10090	100100
FB □	105	110					10550	10560	10570	10580	10590	105100
FB □	110	115					11050	11060	11070	11080	11090	110100
FB □	115	120					11550	11560	11570	11580	11590	115100
FB □	120	125						12060	12070	12080	12090	120100
FB □	125	130						12560	12570	12580	12590	125100
FB □	130	135						13060	13070	13080	13090	130100
FB □	135	140						13560	13570	13580	13590	135100
FB □	140	145						14060	14070	14080	14090	140100
FB □	145	150						14560	14570	14580	14590	145100
FB □	150	155						15060	15070	15080	15090	150100
FB □	155	160						15560	15570	15580	15590	155100
FB □	160	165						16060	16070	16080	16090	160100
FB □	165	170						16560	16570	16580	16590	165100
FB □	170	175						17060	17070	17080	17090	170100
FB □	175	180						17560	17570	17580	17590	175100
FB □	180	185						18060	18070	18080	18090	180100
FB □	185	190						18560	18570	18580	18590	185100
FB □	190	195						19060	19070	19080	19090	190100
FB □	195	200						19560	19570	19580	19590	195100
FB □	200	205						20060	20070	20080	20090	200100
FB □	205	210						20560	20570	20580	20590	205100
FB □	215	220						21560	21570	21580	21590	215100
FB □	225	230						22560	22570	22580	22590	225100
FB □	230	235						23060	23070	23080	23090	230100
FB □	240	245						24060	24070	24080	24090	240100
FB □	250	255						25060	25070	25080	25090	250100
FB □	260	265						26060	26070	26080	26090	260100
FB □	270	275						27060	27070	27080	27090	270100
FB □	280	285						28060	28070	28080	28090	280100
FB □	290	295						29060	29070	29080	29090	290100
FB □	300	305						30060	30070	30080	30090	300100

FB090F/092F 标准公制翻边轴承
Metric Standard Flange Bushing



※标准翻边套标注方式：Standard Flange Bushing Label Mode FB□F 25150

单位unit:mm

型号 Type	内径 φd	外径 φD	法兰外径 φD_1 ± 0.5	法兰壁厚 h $^{0}_{-0.20}$	高度 L ± 0.25	f_1	f_2	相配轴径 Axle	相配座孔 Housing
FB090 □F 2520	25	28	35	1.5	20	0.8	0.4	25 $^{-0.020}_{-0.041}$	28 $^{+0.021}_{0}$
FB090 □F 2525					25				
FB090 □F 3020	30	34	45	2.0	20	1.2	0.6	30 $^{-0.020}_{-0.041}$	34 $^{+0.025}_{0}$
FB090 □F 3025					25				
FB090 □F 3030					30				
FB090 □F 3530	35	39	50		30			35 $^{-0.025}_{-0.050}$	39 $^{+0.025}_{0}$
FB090 □F 3540					40				
FB090 □F 3550					50				
FB090 □F 4030	40	44	55		30			40 $^{-0.025}_{-0.050}$	44 $^{+0.025}_{0}$
FB090 □F 4040					40				
FB090 □F 4050					50				
FB090 □F 5030	50	55	65	2.5	30	1.6	0.8	50 $^{-0.025}_{-0.050}$	55 $^{+0.030}_{0}$
FB090 □F 5040					40				
FB090 □F 5050					50				
FB090 □F 5530	55	60	70		30			55 $^{-0.030}_{-0.060}$	60 $^{+0.030}_{0}$
FB090 □F 5540					40				
FB090 □F 5550					50				
FB090 □F 6040	60	65	75		40			60 $^{-0.030}_{-0.060}$	65 $^{+0.030}_{0}$
FB090 □F 6050					50				
FB090 □F 6060					60				
FB090 □F 8050	80	85	100		50			80 $^{-0.030}_{-0.060}$	85 $^{+0.035}_{0}$
FB090 □F 8060					60				
FB090 □F 8080					80				
FB090 □F 10050	100	105	120		50			100 $^{-0.036}_{-0.071}$	105 $^{+0.035}_{0}$
FB090 □F 10060					60				
FB090 □F 10080					80				
FB090 □F 16060	160	165	190		60			160 $^{-0.043}_{-0.083}$	165 $^{+0.040}_{0}$
FB090 □F 16080					80				
FB090 □F 20060	200	205	235		60			200 $^{-0.050}_{-0.096}$	205 $^{+0.046}_{0}$
FB090 □F 20080					80				

It's made of bronze or iron powder, mold pressed in high pressure, sintered in high temperature and soaked in oil by vacuum. It's used in domestic electric appliances, electric tools, textiles machinery, chemical machinery and automobile industry, etc.

Performance index	Data
Maximum load capacity	150 N/mm^2
Temperature range	–60℃~+200℃
Maximum sliding speed	2.5 m/s
Alloy material	CuSn6–6–3
Maximum PV value	2.45 N/mm^{2}m/s

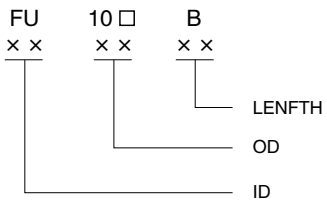
※粉末冶金含油轴承的形状 SHATEF OF SINTERED FUBEARING

※材料的种类及金属基体 TYFES OF MATERIAL AND BASIC METAL

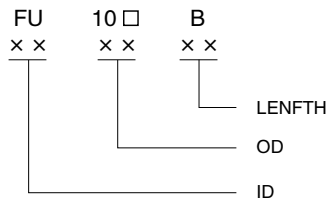
MATERIAL CODE	BASIC METAL	ALLOY COMPOSITION
FM101 (铜基) COPPER BASED	SAE841 ASTM B438–70 GR1 Type DIN30 910 PART3SintA50 Mil–B–5687C Type CompA	Cu87.5~90.5,Fe1.0max,Sn9.5~10.5,P1.75,杂质为0.5
FM102 (铁基) IRON BASED	SAE863 Type3 SATM B439–70 GR4 Mil–B–5687C Type Ⅱ CompB	Cu18.0~22.0,Fe余量,杂质为2.0 ALLOW ANCE

※可供产品的标注方式 LABEL METHOD PRODUCTS AVAILABLE

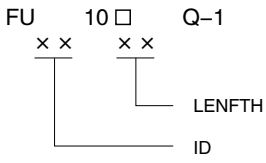
METRIC SINTERED BEARING



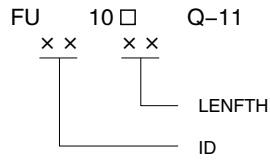
METRIC SINTERED BEARING WITH FLAGE



METRIC SINTERED SPHERICAL BEARING



METRIC SINTERED BEARING WITH RING



嘉善方木轴承有限公司

FangMu Hardware Co.,Ltd.

Add : No. 58 Xinghong Road, Tian ning,

Jiashan, Zhejiang, 314109, China

Tel : +86-573-84972181

Fax : +86-573-84972180

Email : fmhardware@yahoo.cn

www.fangmu.cc