

SF-1 白润滑轴承





公司简介 INTRODUCTION

嘉善海丰轴承厂（HFB）是一家专业从事轴承设计生产的实体企业，位于浙江嘉善县，地处长三角都市经济圈，与上海、苏州、杭州接壤，地理位置优越，交通便利。

公司生产的产品主要产品SF-1系列无油润滑轴承，SF-2系列边界润滑轴承，FZ系列钢球保持架，JDB系列固体润滑轴承，JF系列双金属轴承，FB系列青铜卷制轴承系列等多个系列产品。

产品广泛应用于冶金、汽车、矿山、石油、化工、电机电器、船舶、印刷、机械、水利、模具、铁路机车等领域。

欢迎广大海内外客户与我们洽谈业务，我们将竭诚为您提供一流的产品，一流的服务。

Jiashan Haifeng bearings Co., Ltd, is specialized in manufacturing sliding bearing. Our main products are: SF-1(DU) self-lubricating bearings, SF-2(DX) boundary self-lubricating bearings, JF bi-metal bearings, JDB cast bronze with solid lubricants bearings, FB090 bronze bearings, FZ ball retainer, FR PTFE tape, FD bronze powder with PTFE tape, FU sintered bronze bearings etc.

We can supply products with stable quality, and has won the trophy and certificate authorities. It is widely used in hydraulic elements, automobile, Metallurgical Mines, Ocean Station Vessel, Industrial Machinery, Petroleum Industry Machinery, Textile machine, lifting appliance, Printing, foods and Construction Machinery etc.

We are committed to supplying products of the highest quality and providing a comprehensive and professional service.



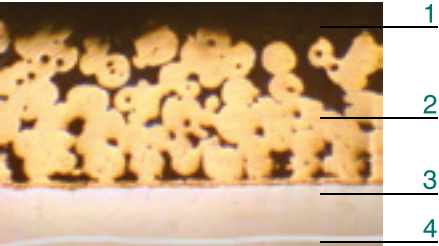
SF-1 碳钢基自润滑轴承
Carbon Steel self-lubricating bearing

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



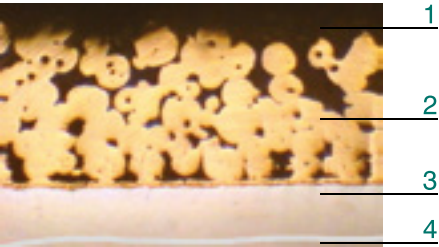
SF-1W 碳钢基无铅自润滑轴承
Carbon Steel Pb-free self-lubricating bearing

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



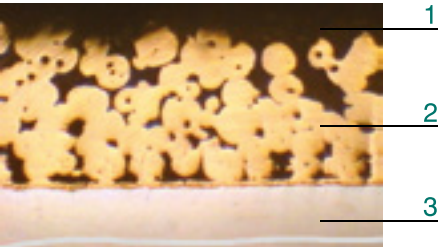
SF-1B 铜基无铅自润滑轴承
Bronze Pb-free self-lubricating bearings

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 resistance. 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.Porous bronze
3.Bronze backing

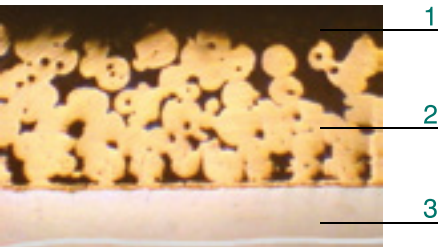
SF-1S 不锈钢基自润滑轴承
Stainless steel self-lubricating bearing

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 resistance. 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.球形青铜粉 3.不锈钢背
1.PTFE with Fiber 2.Porous bronze
3.Stainless steel backing



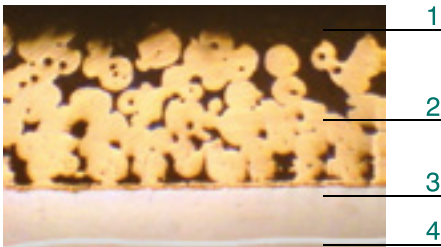
SF-1T 碳钢基自润滑轴承（齿轮油泵）
Carbon Steel self-lubricating bearing (Gear pump)

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

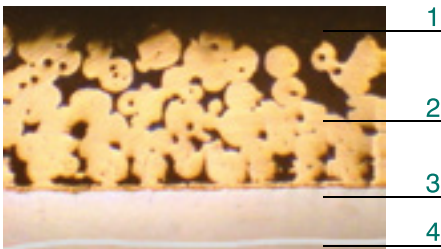
SF-1P 碳钢基无铅自润滑轴承（减震器）
Carbon Steel Pb-free self-lubricating bearing (absorber)

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

SF-1/1W/1B/1S/1T/1P 标准公制轴套

Metric Standard Bushing



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
$\phi D \leq 10$	+0.055 +0.025
$10 < \phi D \leq 18$	+0.065 +0.030
$18 < \phi D \leq 30$	+0.075 +0.035
$30 < \phi D \leq 50$	+0.085 +0.045
$50 < \phi D \leq 80$	+0.100 +0.055
$80 < \phi D \leq 120$	+0.120 +0.070
$120 < \phi D \leq 180$	+0.170 +0.100
$180 < \phi D \leq 250$	+0.210 +0.130
$250 < \phi D \leq 305$	+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
$\phi d < 5$	0.75 $\begin{smallmatrix} 0 \\ -0.020 \end{smallmatrix}$
$5 \leq \phi d \leq 18$	1.0 $\begin{smallmatrix} +0.005 \\ -0.020 \end{smallmatrix}$
$18 < \phi d \leq 25$	1.5 $\begin{smallmatrix} +0.005 \\ -0.025 \end{smallmatrix}$
$25 < \phi d < 45$	2.0 $\begin{smallmatrix} +0.005 \\ -0.030 \end{smallmatrix}$
$45 \leq \phi d < 80$	2.5 $\begin{smallmatrix} +0.005 \\ -0.040 \end{smallmatrix}$
$80 \leq \phi d < 120$	2.5 $\begin{smallmatrix} -0.010 \\ -0.060 \end{smallmatrix}$
$\phi d \geq 120$	2.5 $\begin{smallmatrix} -0.035 \\ -0.085 \end{smallmatrix}$

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

■ 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

■ 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

■ 垫片标注方式 Washer Label Mode

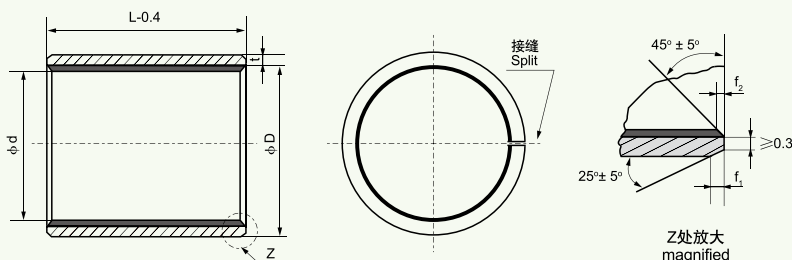
SF-1□W

× ×

垫片型号
Washer Type

垫片规格
Washer Specification

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



※标准直套标注方式：Standard Bushing Label Mode SF-1□ 0408

单位Unit: mm

型号 Type	外径 φ D	内径 φ d	相配轴径 Axle	相配座孔 Housing H7	f ₁	f ₂	L - 0.4						
							8	10	15	20	25	30	40
SF-1□	5.5	4	4 ⁰ _{-0.008}	5.5 ^{+0.008} ₀	0.4	0.3	0408	0410					
SF-1□	7	5	5 ^{-0.010} _{-0.022}	7 ^{+0.015} ₀	0.6	0.3	0508	0510					
SF-1□	8	6	6 ^{-0.010} _{-0.022}	8 ^{+0.015} ₀			0608	0610	0615				
SF-1□	10	8	8 ^{-0.013} _{-0.028}	10 ^{+0.015} ₀			0808	0810	0815				
SF-1□	12	10	10 ^{-0.013} _{-0.028}	12 ^{+0.018} ₀			1008	1010	1015	1020			
SF-1□	14	12	12 ^{-0.016} _{-0.034}	14 ^{+0.018} ₀			1208	1210	1215	1220			
SF-1□	15	13	13 ^{-0.016} _{-0.034}	15 ^{+0.018} ₀				1310	1315	1320			
SF-1□	16	14	14 ^{-0.016} _{-0.034}	16 ^{+0.018} ₀				1410	1415	1420			
SF-1□	17	15	15 ^{-0.016} _{-0.034}	17 ^{+0.018} ₀				1510	1515	1520	1525		
SF-1□	18	16	16 ^{-0.016} _{-0.034}	18 ^{+0.018} ₀					1615	1620	1625		
SF-1□	19	17	17 ^{-0.016} _{-0.034}	19 ^{+0.021} ₀					1715	1720	1725		
SF-1□	20	18	18 ^{-0.016} _{-0.034}	20 ^{+0.021} ₀	0.8	0.4			1815	1820	1825		
SF-1□	23	20	20 ^{-0.020} _{-0.041}	23 ^{+0.021} ₀					2015	2020	2025	2030	
SF-1□	25	22	22 ^{-0.020} _{-0.041}	25 ^{+0.021} ₀						2220	2225	2230	
SF-1□	27	24	24 ^{-0.020} _{-0.041}	27 ^{+0.021} ₀						2420	2425	2430	
SF-1□	28	25	25 ^{-0.020} _{-0.041}	28 ^{+0.021} ₀	1.2	0.6				2520	2525	2530	2540
SF-1□	32	28	28 ^{-0.020} _{-0.041}	32 ^{+0.025} ₀						2820	2825	2830	2840
SF-1□	34	30	30 ^{-0.020} _{-0.041}	34 ^{+0.025} ₀						3020	3025	3030	3040
SF-1□	36	32	32 ^{-0.025} _{-0.050}	36 ^{+0.025} ₀						3220	3225	3230	3240
SF-1□	39	35	35 ^{-0.025} _{-0.050}	39 ^{+0.025} ₀						3520	3525	3530	3540
SF-1□	42	38	38 ^{-0.025} _{-0.050}	42 ^{+0.025} ₀						3820	3825	3830	3840
SF-1□	44	40	40 ^{-0.025} _{-0.050}	44 ^{+0.025} ₀	1.6	0.8				4020	4025	4030	4040
SF-1□	50	45	45 ^{-0.025} _{-0.050}	50 ^{+0.025} ₀						4520	4525	4530	4540
SF-1□	55	50	50 ^{-0.025} _{-0.050}	55 ^{+0.030} ₀								5030	5040
SF-1□	60	55	55 ^{-0.030} _{-0.060}	60 ^{+0.030} ₀								5530	5540

SF-1/1W/1B/1S/1T/1P 标准公制直套

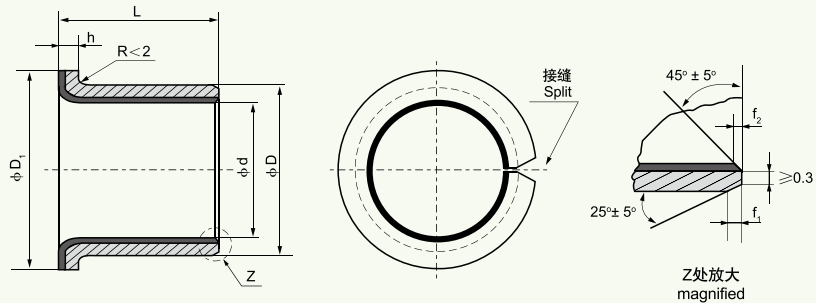
Metric Standard Bushing



型号 Type	外径 ϕD	内径 ϕd	相配轴径 Axle	相配座孔 Housing H7	f_1	f_2	L - 0.4					
							40	50	60	70	80	100
SF-1□	65	60	60 ^{-0.030} _{-0.060}	65 ^{+0.030} ₀	1.6	0.8	6040	6050	6060			
SF-1□	70	65	65 ^{-0.030} _{-0.060}	70 ^{+0.030} ₀			6540	6550	6560			
SF-1□	75	70	70 ^{-0.030} _{-0.060}	75 ^{+0.030} ₀			7040	7050	7060	7070		
SF-1□	80	75	75 ^{-0.030} _{-0.060}	80 ^{+0.030} ₀				7550	7560	7570		
SF-1□	85	80	80 ⁰ _{-0.045}	85 ^{+0.035} ₀			8040	8050	8060	8070		
SF-1□	90	85	85 ⁰ _{-0.054}	90 ^{+0.035} ₀				8550	8560	8570	8580	
SF-1□	95	90	90 ⁰ _{-0.054}	95 ^{+0.035} ₀				9050	9060	9070	9080	
SF-1□	100	95	95 ⁰ _{-0.054}	100 ^{+0.035} ₀				9550	9560	9570	9580	
SF-1□	105	100	100 ⁰ _{-0.054}	105 ^{+0.035} ₀				10050	10060	10070	10080	
SF-1□	110	105	105 ⁰ _{-0.054}	110 ^{+0.035} ₀				10550	10560	10570	10580	
SF-1□	115	110	110 ⁰ _{-0.054}	115 ^{+0.035} ₀				11050	11060	11070	11080	
SF-1□	120	115	115 ⁰ _{-0.054}	120 ^{+0.035} ₀				11550	11560	11570	11580	
SF-1□	125	120	120 ⁰ _{-0.054}	125 ^{+0.040} ₀					12060	12070	12080	
SF-1□	130	125	125 ⁰ _{-0.063}	130 ^{+0.040} ₀					12560	12570	12580	
SF-1□	135	130	130 ⁰ _{-0.063}	135 ^{+0.040} ₀					13060	13070	13080	
SF-1□	140	135	135 ⁰ _{-0.063}	140 ^{+0.040} ₀					13560	13570	13580	
SF-1□	145	140	140 ⁰ _{-0.063}	145 ^{+0.040} ₀					14060	14070	14080	
SF-1□	150	145	145 ⁰ _{-0.063}	150 ^{+0.040} ₀					14560	14570	14580	
SF-1□	155	150	150 ⁰ _{-0.063}	155 ^{+0.040} ₀					15060	15070	15080	
SF-1□	160	155	155 ⁰ _{-0.063}	160 ^{+0.040} ₀					15560	15570	15580	
SF-1□	165	160	160 ⁰ _{-0.063}	165 ^{+0.040} ₀					16060	16070	16080	160100
SF-1□	180	175	175 ⁰ _{-0.063}	180 ^{+0.040} ₀						17570	17580	175100
SF-1□	190	185	185 ⁰ _{-0.072}	190 ^{+0.046} ₀						18570	18580	185100
SF-1□	200	195	195 ⁰ _{-0.072}	200 ^{+0.046} ₀						19570	19580	195100
SF-1□	210	205	205 ⁰ _{-0.072}	210 ^{+0.046} ₀						20570	20580	205100
SF-1□	220	215	215 ⁰ _{-0.072}	220 ^{+0.046} ₀						21570	21580	215100
SF-1□	230	225	225 ⁰ _{-0.072}	230 ^{+0.046} ₀							22580	225100
SF-1□	240	235	235 ⁰ _{-0.072}	240 ^{+0.046} ₀							23580	235100
SF-1□	250	245	245 ⁰ _{-0.072}	250 ^{+0.046} ₀							24580	245100
SF-1□	260	255	255 ⁰ _{-0.081}	260 ^{+0.052} ₀							25580	255100
SF-1□	280	275	275 ⁰ _{-0.081}	280 ^{+0.052} ₀							27580	275100
SF-1□	305	300	300 ⁰ _{-0.081}	305 ^{+0.052} ₀							30080	300100

SF-1/1W/1B/1S/1T/1P标准公制翻边轴套

Metric Standard Flange Bushing

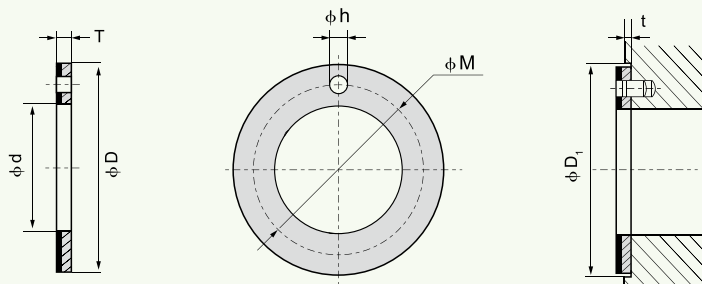
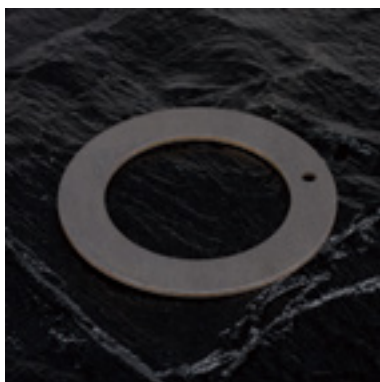


※标准翻边套标注方式: Standard Flange Bushing Label Mode SF-1□F 06040

单位Unit: mm

型号规格 Designation	内径 φ d	外径 φ D	法兰外径 φ D 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
SF-1□F 06040	6	8	12	1.0	4	0.6	0.3	6 ^{-0.010} _{-0.022}	8 ^{+0.015} ₀
SF-1□F 06070					7				
SF-1□F 08055	8	10	15		5.5			8 ^{-0.013} _{-0.028}	10 ^{+0.015} ₀
SF-1□F 08075					7.5				
SF-1□F 10070	10	12	18		7			10 ^{-0.013} _{-0.028}	12 ^{+0.018} ₀
SF-1□F 10090					9				
SF-1□F 10120					12				
SF-1□F 12070					7				
SF-1□F 12090	12	14	20		9			12 ^{-0.016} _{-0.034}	14 ^{+0.018} ₀
SF-1□F 12120					12				
SF-1□F 14120	14	16	22		12			14 ^{-0.016} _{-0.034}	16 ^{+0.018} ₀
SF-1□F 14170					17				
SF-1□F 15090	15	17	23		9			15 ^{-0.016} _{-0.034}	17 ^{+0.018} ₀
SF-1□F 15120					12				
SF-1□F 15170					17				
SF-1□F 16120					12				
SF-1□F 16170	16	18	24		17			16 ^{-0.016} _{-0.034}	18 ^{+0.018} ₀
SF-1□F 18120					12				
SF-1□F 18170	18	20	26		17			18 ^{-0.016} _{-0.034}	20 ^{+0.021} ₀
SF-1□F 18200					20				
SF-1□F 20115	20	23	30	1.5	11.5	0.8	0.4	20 ^{-0.020} _{-0.041}	23 ^{+0.021} ₀
SF-1□F 20165					16.5				
SF-1□F 20215					21.5				
SF-1□F 22150	22	25	32		15			22 ^{-0.020} _{-0.041}	25 ^{+0.021} ₀
SF-1□F 22200					20				
SF-1□F 25115	25	28	35		11.5			25 ^{-0.020} _{-0.041}	28 ^{+0.021} ₀
SF-1□F 25165					16.5				
SF-1□F 25215					21.5				
SF-1□F 30160	30	34	42	2.0	16	1.2	0.6	30 ^{-0.020} _{-0.041}	34 ^{+0.025} ₀
SF-1□F 30260					26				
SF-1□F 35160	35	39	47		16			35 ^{-0.025} _{-0.050}	39 ^{+0.025} ₀
SF-1□F 35260					26				
SF-1□F 40260	40	44	53		26			40 ^{-0.025} _{-0.050}	44 ^{+0.025} ₀
SF-1□F 40400					40				

SF-1/1W/1B/1S/1T/1P 标准公制垫片 Metric Standard Washer

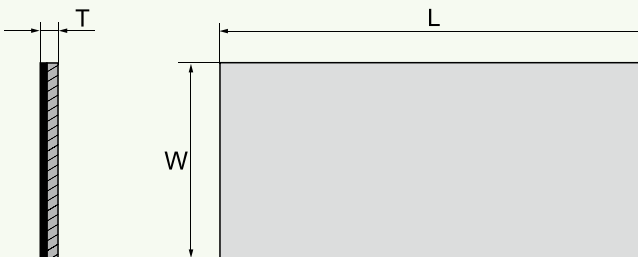


※标准垫片标注方式: Standard Washer Label Mode SF-1□WC 10

单位Unit: mm

相配轴径 Axle	型号规格 Designation	垫片尺寸 Washer Dimension				安装尺寸 Installation Size		
		$\phi D \begin{smallmatrix} 0 \\ -0.25 \end{smallmatrix}$	$\phi d \begin{smallmatrix} +0.25 \\ 0 \end{smallmatrix}$	$T \begin{smallmatrix} 0 \\ -0.050 \end{smallmatrix}$	$\phi M \pm 0.125$	$\phi h \begin{smallmatrix} +0.40 \\ +0.10 \end{smallmatrix}$	$t \pm 0.20$	$\phi D_1 \begin{smallmatrix} +0.12 \\ 0 \end{smallmatrix}$
8	SF-1□WC 10	20	10	1.5	15	1.5	1.0	20
10	SF-1□WC 12	24	12		18			24
12	SF-1□WC 14	26	14		20	2.0		26
14	SF-1□WC 16	30	16		23			30
16	SF-1□WC 18	32	18		25			32
18	SF-1□WC 20	36	20		28	3.0		36
20	SF-1□WC 22	38	22		30			38
22	SF-1□WC 24	42	24		33			42
24	SF-1□WC 26	44	26		35	4.0		44
26	SF-1□WC 28	48	28		38			48
30	SF-1□WC 32	54	32		43			54
36	SF-1□WC 38	62	38		50			62
40	SF-1□WC 42	66	42		54			66
46	SF-1□WC 48	74	48	2.0	61	1.5	74	
50	SF-1□WC 52	78	52		65		78	
60	SF-1□WC 62	90	62		76		90	

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



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

单位Unit: mm

型号规格 Designation	长度 Length $L \begin{smallmatrix} +5.0 \\ 0 \end{smallmatrix}$	宽度 Width $W \begin{smallmatrix} +2.0 \\ 0 \end{smallmatrix}$	厚度 Thickness $T \begin{smallmatrix} 0 \\ -0.050 \end{smallmatrix}$
SF-1□SP 010130	500	130	1.0
SF-1□SP 015130	500	130	1.5
SF-1□SP 020130	500	130	2.0
SF-1□SP 025130	500	130	2.5



※ 通用外径检验方法 (ISO3547-2: 1999 Test B) :

Common test method of outside diameter (ISO3547-2: 1999 Test B:

轴套用手压入环规通端 (最大用力250N) , 通过

Press the bushes into the GO ring gauge and then push them through with hand pressure

(maximum force 250N)

轴套用同样方法与同样力, 压入环规止端, 不通过

On the other hand with the same force, It shall not be possible for them to go into the

NOGO ring gauge



※ 通用的内径检验方法 (ISO3547-2: 1999 Test C) :

Common test method of inner diameter test (ISO3547-2: 1999 Test C) :

检验内径, 轴承压入环规, 塞规通端通过用较小力, 塞规止端通不过用力最大不超过250N。

To check the inner diameter, the bush is to be press into a ring gauge. The GO plug gauge shall be inserted by a minimum effort. The NOGO Plug gauge shall not be insert by mutual pressure (maximum force 250N)

(注意: 当轴承压入环规, 轴承外径可能会被永久减小)

Note: When the bush is pressed into the ring gauge, It is possible that There will be a permanent reduction in the outside diameter)

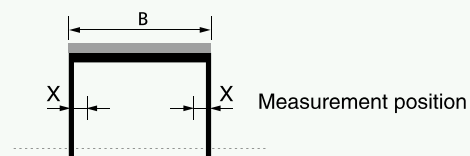


※ 通用的壁厚测量方法:

Common methed of wall thickness measurement:

轴承的壁厚测量一点、二点、三点, 在轴向上依据轴承高度尺寸

The wall thickness is measured at one, two or three positions axially according to the bearing dimensions.



B[mm]	X[mm]	measurement position
$B \leq 15$	$B/2$	1
$15 < B \leq 50$	4	2
$50 < B \leq 90$	6 and $B/2$	3
$B > 90$	8 and $B/2$	3

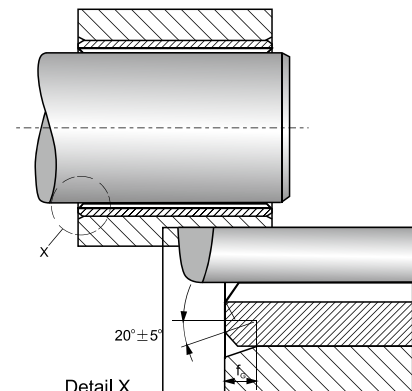
轴承安装设计 Design of Bearing Arrangement

※直套 Cylindrical Bushes

座孔被倒角 $f_G \times 20^\circ \pm 5^\circ$ ，使衬套压入座孔变的更加容易。

The housing bore should have a chamfer $f_G \times 20^\circ \pm 5^\circ$, The chamfer makes it easier to press the bushes into the housing.

座孔直径 Housing bore diameter d_G	座孔倒角 Chamfer of housing f_G
$d_G \leq 30$	$0.8 \pm 0.3 \times 20^\circ \pm 5^\circ$
$30 < d_G \leq 80$	$1.2 \pm 0.4 \times 20^\circ \pm 5^\circ$
$80 < d_G \leq 180$	$1.8 \pm 0.8 \times 20^\circ \pm 5^\circ$
$d_G > 180$	$2.5 \pm 1.0 \times 20^\circ \pm 5^\circ$

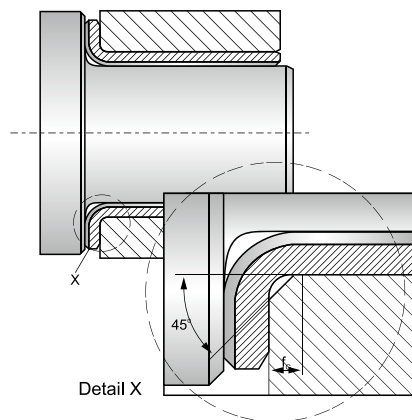


※翻边套 Flange Bushes

关于翻边套，从翻边套口到轴向转换组件必须考虑半径的转变，切面要有一个足够大的倒角。以防翻边套口聚集污垢后仍然可以支持轴向载荷部件的边缘。

The radius at the transition from the radial to the axial Component must be taken into consideration for flange bushes A sufficiently large chamfer must be provided on the housing to prevent the flanged bushes fouling in the area of the radius Sufficient support must be provided for the flange in applications With axial loading.

座孔直径 Housing bore diameter d_G	座孔倒角 Chamfer of housing f_G
$d_G \leq 10$	$1.2 \pm 0.2 \times 45^\circ \pm 5^\circ$
$d_G > 10$	$1.7 \pm 0.2 \times 45^\circ \pm 5^\circ$

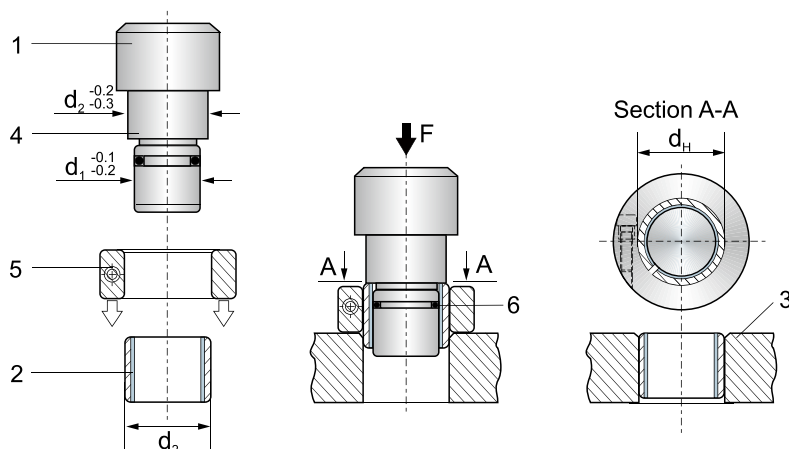


滑动轴承与座孔的装配

The installation of the sliding bushing and the housing

滑动轴承与座孔装配时，要保证轴承在座孔内不发生转动和轴向移动，又要使轴承外表面和座孔充分接触，一般应保证接触面大于85%，有利于承受载荷和传导摩擦热，采用较轻级的过盈配合，既要保证使用时，轴承不会在座孔内发生相对移动，又不会使轴承外径过盈量过大致使轴承内孔变形过大为有利于装配，轴承内外表面应涂以少量油或油脂，再将轴承均匀压入。

When installing the sliding bushing and the housing, make sure the bushing doesn't rotate or move. The outside surface of the bushing must have a through contact with the housing, in general the connecting part must be over 85%, and this will be good for the load pressure and the conduction of friction heat. Using surplus quantity loosely, that is when it is used the bushing does not move relatively and also the surplus quantity of the bushing outside diameter, will not be too big to cause serious distortion of the bushing inside hole, when installing, it is good to lay a little lubricant, such as oil on the inside and outside surface of the bushing. then press bushing slowly.



$d \geq 55\text{mm}$

1. 芯轴 Pressing-in arbor
2. 轴承 Bushes
3. 座孔 Housing
4. 档边尺寸 Shoulder diameter
5. 辅助套 Auxiliary ring
6. O型圈 O ring

轴承 d_2	d_H
>55到100	$d_2 \begin{matrix} +0.28 \\ +0.25 \end{matrix}$
>100到200	$d_2 \begin{matrix} +0.40 \\ +0.36 \end{matrix}$
>200到305	$d_2 \begin{matrix} +0.50 \\ +0.40 \end{matrix}$



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