ISO9001: 2008 CERTIFIED MANUFACTURER

Metric Oilless Sliding Components

自润轴承 模具导向件专业制造商



SRI
SHANGHAI RICH INTERNATIONAL

上海力其国际贸易有限公司
SHANGHAI RICH INTERNATIONAL CO.,LTD



Metric Oilless Sliding Components

SRI05(500#SP)系列固体自润滑轴承是在高力合金铜基体上开出大小适当、排列有序的孔穴，然后在孔穴中嵌入具有独特自润滑性能的成型固体润滑剂(固体润滑剂面积一般为摩擦面积的25%–35%)而制成的自润滑轴承。该轴承综合了金属基体和特殊配方润滑材料的各自优点，突破了一般轴承依靠油脂润滑的局限性。SRI05(500#SP)固体润滑轴承特别适用于无油、高温、高负载、低速度、防污、防蚀、防辐射、以及在水中或真空溶液浸润而根本无法加润滑油脂的特殊工况条件下使用。

该产品广泛应用于冶金轧钢设备、灌装设备、水轮机、气轮机、塑胶模具、冲压模具、仪器仪表以及矿山机械、船舶机械、纺织机械、注塑机械、重工机械、工程机械、船舶工业、港口物流机械、汽车模具导向件、风力发电机主机滑动轴承等领域。



ISO9001:2008 Certificate

Shanghai Rich International Co., Ltd., as the manufacturer of oilless elements from P.R.CHINA, specializes in high-quality products. With professional experience of producing oilless elements, our products are world-widely installed in vehicle mould and related industries as substitute at competitive price for DIN 9834,NAAMS G61,G71 guide bushing, v/w 39D863 VDI3357 E.T.C.

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SHANGHAI RICH INTERNATIONAL

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冲压模具部品 Die Setting components


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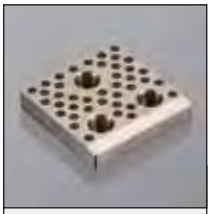

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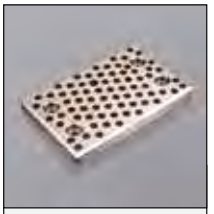

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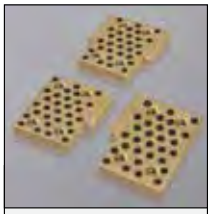
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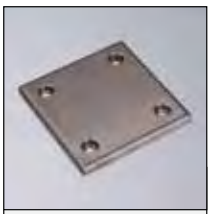

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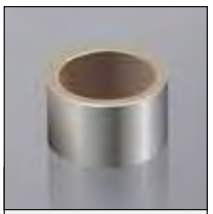

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产品特长 Product Features

1. 无需供油装置、注油孔、油槽加工

供油装置的费用、加工费、组装费等多余的成本与时间的节省，能大幅降低制造成本。

2. 运行成本的降低

大幅降低润滑油的使用量与设备的维护保养费，另外也免除了由于供油不足造成的风险。

3. 设计时间的缩短

无油化可以使设计，结构等大幅简化，降低成本，节约设计时间，此外，使用自润滑轴承还可以提高机械性能，延长使用寿命及提高可靠性等方面获得显著效果。

4. 润滑油的回收和环保

无需废油回收处理，有利于环境保护。

SRI05(500#SP) 自润轴承作为机械行业零部件，有一定广义上的使用。为了使机械传动运行正常，下了不少功夫。将轴承区分为滚动轴承和滑动轴承。一般的滑动轴承在高负荷运动方式、异物混入、温度条件、供油、维护保养不完善等情况下，会引起拉毛。像这样一般的滑动轴承无法使用的严酷条件下，固体镶嵌型金属自润滑轴承的耐磨性，耐拉毛性上，发挥轴承应有的性能，实现机械的高性能化和免维护保养的作用。

1. No need to oil installations, the filling hole processing tank

The cost of oil installations, processing fees, assembly fees, the extra cost and time savings can significantly reduce manufacturing costs.

2. Lower operating costs

Substantially reduce the use of lubricants and equipment maintenance costs, while also eliminating the risk caused due to insufficient oil supply.

3. The shortening of design time

Non-oil can make the design, structure, and greatly simplify and reduce costs, save design time and to obtain significant results, in addition, the use of self-lubricating bearings can also improve the mechanical properties and extend the service life and higher reliability.

4. Lubricating oil recycling and environmental protection

No need to waste oil recycling, are environmentally friendly.

SRI05 (500#SP), self-lubricating bearing parts of the machinery industry, the use of certain generalized. In order to make the mechanical drive is operating normally, a lot of effort. The bearing area is divided into Rolling and plain bearings. Sliding bearings in high-load movement, foreign substances, temperature, fuel, maintenance, imperfect circumstances, can cause galling. Like sliding bearings can not be used under harsh conditions, the solid inlaid metal self-lubricating bearings, wear resistance, resistance to galling, to play the bearings of the due performance, the role of mechanical performance and maintenance-free.

使用注意事项 Application Notes

1. 在可能情况下，设计时尽量采用标准规格；

2. 装配时请注意表面有无异物；

3. 使用后的滑动面，因固体润滑剂形成的油膜导致表面有黑色或灰黑色现象，请不要擦洗，照常使用；

4. 装配前，若以润滑油涂于对磨件上，可减短走合期，利于机械操作、运转；

5. 装配时应徐徐压入，严禁敲打，以免损伤轴承及引起变形；

6. 设计时，不同的部位应选用适当的材质，以便提高机械性能，延长轴承的使用寿命；

7. 在高承载，往复运动中，建议使用螺钉固定；

8. 在淡水中、海水中及在海上作业时，对磨轴建议使用不锈钢或表面镀铬。

1. Use standard designation when designing if possible;

2. Note if there are any foreign matters on the surface when assembling;

3. Do not erase the black or grey phenomenon on the sliding surface caused by the oil film that is formed by the solid lubricant after using;

4. It is good for mechanical operation and running if lay the lubricant on the corresponding friction set before installing;

5. Pressing should be carried out slowly when installing. Do not beat in the event of damaging the bushing or causing the distortion to the bushing;

6. Using proper material in different parts when designing in order to enhance the mechanical properties and prolong the service life of the bushing;

7. It would be better to fix with bolt in high load and reciprocating motion;

8. It is recommended to use stainless steel or plate chrome on the surface of the corresponding friction shaft when working in the water or in the sea.

固体自润滑轴承的优点 The Advantages of The Solid-Lubricant-Inlaid Bushing

1. 设计灵活、简单、方便，使用范围广；

供油系统在机械设计上是一件费工，费时的装置，使用固体自润滑轴承在设计时不需要考虑加油装置，节约了加油装置设备，同时可以针对各种特殊场合，把固体自润滑轴承设计成各种形状，以满足各种特殊场合的需要，使用固体自润滑轴承，可以大幅减少机械检修，油料等费用。

2. 无油可以使用；

由于固体自润滑剂的线膨胀系数大于金属基体，因此当固体自润滑轴承开始运转时，油膜会转移到对磨件上而实现自润滑，所以固体自润滑轴承可以使用在难以加油以及不能加油或油脂的地方，即使在低速高负载的情况下，也能起到良好的润滑作用。

3. 使用成本低；

传统的机械设计，在一定的操作时间内，要经常加油保养，检查油表，供油装置是否畅通，因定期加油导致机体本身及周边环境污染，造成维护保养成本的增加，实现自润滑后，不但可以实现环境整洁，而且大大降低了使用润滑油的成本。

4. 高承载、低转速情况下，可发挥优越的性能；

固体自润滑轴承是用离心铸造的高强度合金黄铜作基体，起到承载负荷的作用，用具有良好自润滑性能的特殊配方的石墨作润滑剂，起到自润滑作用，因此它综合了他们的各自优点，即使在高承载，低转速情况下，可发挥优越的性能。

5. 往复运动、摇摆运动、起动停止频繁等油膜形成困难的场所，可发挥优越的耐磨性；

固体自润滑轴承润滑剂的排列原则是保证对磨件在运转过程中各个部位都有润滑剂作用，因此排列润滑剂时必须根据对磨件的运动方向来确定润滑剂的排布位置。

6. 优越的耐药品性及耐蚀性；

固体自润滑轴承的润滑剂是用特殊配方的石墨、PTFE、二硫化钼等耐磨材料制成的，它具有稳定的分子结构，金属基体可以根据不同金属具有不同的耐药品性和耐蚀性来选择，因此固体自润滑轴承具有优越的耐药品性和耐蚀性。

7. 产品成本更具有竞争力，与同类产品相比，工作寿命较长，所需维护保养甚少，替代更换周期长，性能好。

1. Properly and simply designed, widely used;

Oil offering system is an energy waste and time waste set in mechanical design. There is no needs for considering the oil-putting set in design when using the solid lubricant bushing so it can save the oil-putting equipment and at the same time it also design the solid-lubricant-inlaid bushing into alt kinds of shapes in order to meet various needs in special places. Using solid-lubricant. inlaid bushing can reduce the costs of the machinery mending and the oil in wide range.

2. Being used without oil;

Because of the linear coefficient expansion of the solid lubricant is bigger than that of the metal basement, when the solid-lubricant-inlaid bushing starts to operate, the oil film can transfer to the corresponding friction set to make out self-lubricant. So the solid-lubricant-inlaid bushing can be used in places where the oil or grease cannot be added. It can make out the self-lubricant function even though under high load conditions.

3. Low cost for usage;

Traditional mechanical design asks for frequently aiding oil and checking if the oil watch and the offering set are through in certain period. Because adding oil at regular intervals causes the pollution to the machine itself and the nearby surroundings and increase the maintenance cost. And when the self-lubricant is made out, it can not only make the surroundings clean but also decrease the cost of using the lubricant.

4. The superior functions can be brought into play under high load and low rotati ng speed.

The solid-lubricant-inlaid bushing is based on the high intensity brass that is centrifuge cast. And then make out the loading function. Use special graphite that has good self-lubricant properties as lubricant to make out the self-lubricant so that the bushing has included all of their advantages. It can still bring the superior properties into play even under high load and low rotating speed.

5. The wear resistance can be brought into play even In places the oil film form into difficulties because of the reciprocating and rocking movement, starting and stopping;

The arrangement principle of the lubricant of the solid-lubricant-inlaid bushing is to ensure that all the parts of the corresponding friction sets have the lubricant function in the operating procession. So the arrangement place 0f the lubricant should be depended upon the operating direction of the corresponding friction sets.

6. Superior chemical resistance and corrosion resistance;

The lubricant of the solid-lubricant. inlaid bushing is made of special graphite and PTFE. It has steady molecule structures. The metal basement can be chosen according to the different chemical resistance and corrosion resistance of the metal appliance. So the solid-lubricant-inlaid bushing has the superior chemical resistance and corrosion resistance.

7. The products is more competitive, comparing to the similar kinds of products, this kind of products has longer working life and need seldom maintenance. It has longer replacement ci rcle and good properties.

选择使用SRI自润滑轴承的基体材料：

材料成份和性能 Material Compostion and Properties

SRI Code	SRI050(500#)	SRI051(500#S1)	SRI052(500#S2)	SRI053(500#S3)	SRI054(500#S4)	SRI055(HT250)	SRI056(Gcr15)
材料牌号 Code	CuZn25Al5Mn4Fe3	CuZn25Al5Mn4Fe3	CuAl9Fe4Ni4Mn2	CuSn5Pb5Zn5	CuSn12	HT250	Gcr15
密度 Density	8.0	8.0	8.5	8.9	9.05	7.3	7.8
硬度 Hardness HB	>190	>210	>150	>70	>80	>190	HRC>58
抗拉强度 N/mm^2 Tensile strength	>750	>800	>800	>200	>260	>250	>1500
伸长率 Elongation%	>12	>8	>15	>10	>8	>5	>15
热胀系数 Coefficien of linear expansion $10^{-5}/℃$	1.9	1.9	1.9	1.8	1.8	1.0	1.1
温度 Limit Temp ℃	-40~+300	-40~+150	-40~+400	-40~+400	-40~+400	-40~+400	-40~+400
最大动承载 Max.load N/mm^2	100	120	150	60	70	80	200
最大线速度 m/min Max.speed (Dry)	15	15	20	10	10	8	5
Max.PV最大PV N/mm^2*m/min	200	200	60	60	80	40	150
压缩永久变形量 300N/mm^2	<0.01	<0.005	<0.04	<0.05	<0.05	<0.015	<0.002

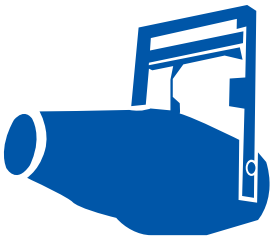
材料对应表 Base Material Interchange

材料代号 Material Codes	中国 China Brands GB1176-87	国际 Intenational ISO 1338	德国 Germany DIN	日本 Japan JIS	美国 America ASTM(UNS)	英国 England BS	法国 France NF	适用情况 Applicable conditions
SRI050(500#) 高力合金铜	ZCuZn25Al6 Fe3Mn3	GCuZn25Al6 Fe3Mn3	DIN1709 G-CuZn25Al5	H5102 CAC304	B30-92 C86300	HTB2		高载荷，低速，一般用 High-load，low speed Commonly used
SRI051(500#S1) 高力合金铜	ZCuZn25Al6 Fe3Mn3	GCuZn25Al6 Fe3Mn3	DIN1709 G-CuZn25Al5	H5102 CAC304	B30-92 C86300	HTB2		超高载荷，低速，高承载用 Over high load，low speed，High load used
SRI052(500#S2) 铸造锡青铜	ZCuSn5 Pb5Zn5	GCuPb5 Sn5Zn5	DIN1705 G-CuSn5ZnPb	H5111 BC6	B30-92 C83600	LG2	CuPb5 Sn5Zn5	中载荷，低速 Mid-load，low speed
SRI053(500#S3) 铸造铝青铜	ZCuAl9Fe4 Ni4Mn2	GCuAl10 FeNi5	DIN17656 G-CuAl10Ni	H5114 AlBC3	B30-92 C95500	AB2	CuAl10 Fe5Ni5	中载荷，中速，一般用 Mid-load，mid-speed，Commonly used
SRI055(HT250) 铸铁	GB5675-85 HT250			FC250	ASTM Class40			中载荷，低速 Mid-load，low speed

固体润滑剂 Solid Lubricant

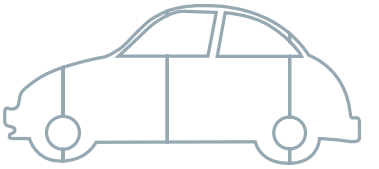
固体润滑剂 Lubricant	特性 Features	典型用途 Typical application
SL1 高纯石墨+添加剂 Graphite+add	很好的耐磨性和化学稳定性，使用温度<400℃ Excellent resistance against chemical attacks and low friction, Temp limit 400℃	应用于一般机械，在大气中使用 Suit for general machines and under atmosphere
SL4 PTFE+添加剂 PTFE+add	极低的摩擦系数和很好的水润性，使用温度<300℃ Lowest in friction and good of water Lubrication,Temp limit 300℃	应用于水、海水润滑、如船舶，水工弧门，水轮机，制药饮料机械等。 Ship, hydraulic turbine, gas turbine etc.

产品应用领域



高温

◎ 钢铁厂
◎ 熔矿炉
◎ 干燥设备
◎ 烘烤炉
◎ 热控制器



汽车制造

◎ 冲床模具
◎ 焊接组织
◎ 烤漆与干燥线
◎ 金属输送带
◎ 工具机



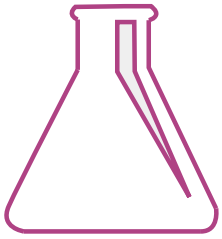
防水

◎ 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



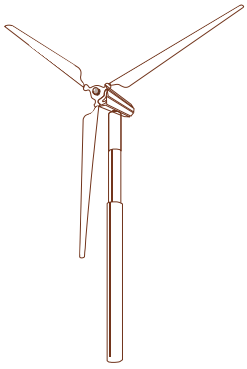
船舶

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



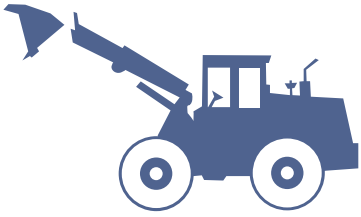
抗化学

◎ 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



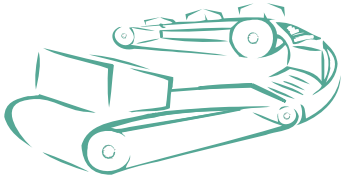
风力

◎ 风力发电
◎ 新能源



重工业

◎ 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

◎ 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

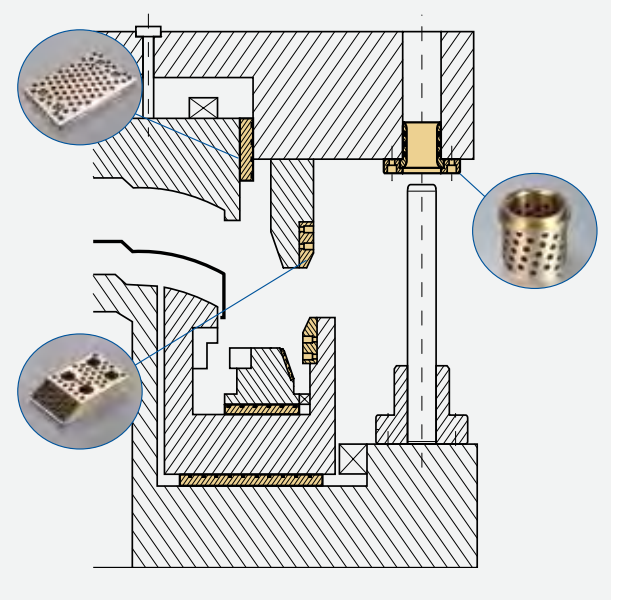


桥梁和升降轨

◎ 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 SRI05(500)# 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 Applications:

※ Vehicle Die-mould industries support.
※ 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

轴承的寿命 The Life The Bushing

SRI05(500#)固体润滑轴承的寿命，除急剧的烧焦外，通常由轴承内径的磨损量来决定，磨损量主要受摩擦条件的影响，而摩擦又受承载、速度、杂质、材质、表面粗糙度、工作温度、不同运行方式、所使用润滑剂等条件影响，因此，磨损量只能是一个理论估计值，轴承的寿命取决于各种复杂的条件。

The life of SRI05(500#) Solid-lubricant-inlaid depends on the wear depth of the inside diameter of the bushing except such condition as acute Singe, etc. The wear depth is influenced by the load speed, foreign matter, material, surface roughness, working temperature, different operating methods and the lubricant used. So the wear depth is only a theoretical estimate value and the life of the bushing depends on all kinds of the complex conditions.

若因供油不良，杂质渗入而使磨损急剧变化时，就很难预测磨损情形。下式为正常情况下由实验得出的磨损量计算式。

If the oil is not provided well, it is hard to estimat the abrasion state when the foreign matters intermingling. the following formula is the computing method.

$$W=K\times P\times V\times T$$

K:摩擦系数 Coefficient of Friction
[mm/(N/mm^2·m/min. hr]

W:磨损量 Wear Depth (mm)

P:承载压力 Load Pressure (N/mm^2)

V:线速度 Linear speed (m/min)

T:磨损时间 Wear Time (hr)

从上式中可以看出，若摩擦系数(K)已知，便可根据承载压力(P)、线速度(V)和磨损时间(T)计算出轴承实际磨损量。但是，在各种实际条件下准确计算出摩擦系数K是件非常困难的事情。在理想条件下，摩擦系数K由影响其值的因素因子Ci来决定。

From the above formula you can see that if the coefficient of the friction "K" is known the real wear depth can be computed according to the pressure "P". linear speed "V" and wear time "T". But it is very difficult to calculate "K" under various actual conditions. Under ideal conditions. "K" depends on the factor "Ci" which influences it.

即i. e. $K=Ci\times k$

Ci: 影响磨损量的因素因子$Ci=C1\times C2\times C3\times\cdots\cdots$

Ci: $Ci=C1\times C2\times C3\times\cdots\cdots$Factor genes that influence the wear depth.

K: 理想条件下的摩擦系数 And k is the coefficient of friction under ideal conditions.

$K=(1\text{-}5)\times10^{-8}$[mm/(N/mm^2·m/min. hr)]

C_0：滑动条件系数 Coefficient of sliding conditions

C_0		线速度 Linear speed V(m/min)		
		≤1	1～10	10～30
承载压力 Loading pressure P(N/mm^2)	≤5	8～10	10～12	12～18
	5～25	12～18	18～25	25～30
	25～50	18～25	25～30	30～40

C_1：温度条件系数 Coefficient of temperature conditions

工作温度 Working temperature(℃)	≤100	100～200	200～400
C_1	1～2	3～5	5～10

C2：环境条件系数 Coefficient of surrounding temperature

环境 Surrounding	一般场所 general place	室外 outside	粉尘较多场合 Places with much powder
C_2	1～2	5～10	10～30

C3：使用场所系数 Coefficient of places used

使用场所 Places used	大气中 Atmosphere	水中 Water	海水中 Sea
C_3	1.9	0.8	1.2

工况条件 Working Conditions

1. 承载压力 Loading pressure

通常所谓承载压力是指轴承承受载荷时，轴承支持的最大载荷除以受压面积。所谓受压面积，当轴承为圆柱时，取与轴承接触部分的载荷方向的投影面积。

The so–called loading pressure generally means that when the bushing is loading, the max load it bears divides the pressed area. And the loading pressed area means the projection area of the connecting parts when the bushing is cylindrical.

2. 线速度 Linear speed

轴承的发热量，主要是由轴承的摩擦作用引起的，根据经验可知，对摩擦面温度的上升，滑动速度V的影响远大于承载压力P的影响。轴承若使用同一PV值，速度V愈大，轴承面温度上升愈快，因此在高温使用时，最好能供给润滑油，增大冷却效果和流体润滑；以求降低摩擦系数，以防高磨损和烧焦现象的发生。

The heat radiated by the bushing is mainly caused by the friction of the bushing. According to the experience we know that the sliding speed "V" affects more than load pressure "P" to the surface temperature. If the bushing uses the same PV value, the higher speed the more quickly temperature ascends. So it would

be better to provide lubricant to enlarge the cooling effect and liquid lubricant by using high temperature in order to reduce the coefficient of the friction and to prevent the high abrasion and burning.

3. PV值 PV value

PV值是衡量轴承磨损极限和使用寿命的重要指标。以承载压力P(N/mm^2)和线速度V(m/s)的乘积PV值(N/mm^2·m/s)来表示。

PV value is an important guideline to weigh the abrasion limit and the service life of the bushing. It is shown by the load pressure P multiplying the line speed V.

轴承在单位时间，单位面积所产生的摩擦热量Q，以下式表示：

In the unit time the friction heat q caused by the unit area of the bushing can be shown by the following formula.

$$Q = \frac{\mu \cdot p \cdot v}{J} \text{ kcal/min}$$

J: 热功当量Heat equivalent of work≈ 4270(N/mm^2 · Kcal)

P: 承载压力 Load Pressure (N/mm^2)

V: 线速度 Linear speed (m/s)

μ : 摩擦系数 coefficient of the friction

如果摩擦系数μ略大一些，轴承所产生的摩擦热量跟PV值成正比，这时所产生的热量Q，在经验上就可被认为固体润滑轴承设计时的重要依据。

当轴承运转时，轴承温度受摩擦发生的热量及热量散发情况影响，通常会在一定的温度上稳定下来. 若运转持续进行中有杂质渗入，润滑油的性能就会降低，同时由于摩擦粉末的影响，材料的疲劳，此时摩擦面的形态即发生变化，摩擦系数提高，轴承的温度上升，致使摩擦面损伤，而导致烧焦，基于此种情况，轴承的运转温度越低，亦即使用低PV值时，轴承的负荷性较好，寿命延长。所以在设计时，尽可能使用较低的PV值较安全，反之，在详细分析冷却方法，轴的材质，表面粗糙度，配合间隙等因素情况下，欲超越最大PV值使用，也是可能的。

If the coefficient of the friction "μ " is a little bigger, the friction heat and the PV value are in the direct ratio. Then the caused heat Q is commonly considered as the important principle in the solid lubricant bushing design.

When the bushing is running the heat and the heat radiation can be fixed at a certain temperature. If there are foreign matters in the running process, the lubricant property may be reduced and the friction shape may be changed because of the effect of the friction powder and the fatigue of the material. The enhancement of the coefficient of the friction and the ascending of the bushing temperature cause the damage of the friction surface and it will burn at last. Considering such cases, the load property of the bushing will be better and the service life will be longer if the operating temperature of the bushing is lower i.e.using lower PV value. So when designing, use lower PV value to ensure it is safe. Otherwise, it is also possible to use max PV value by carefully analyzing cooling methods, material of the shaft and the roughness of the surface,etc.

PV 值计算方法 The calculating method of the PV value:

	承载压力 Load pressure P(N/mm^2)	线速度 Linear speed
轴承 bushing	$\frac{F}{dl}$	$\frac{\pi dn}{10^3}$
		$\frac{\pi d \theta c}{1.8 \times 10^3}$
垫片 washer	$\frac{4F}{\pi (D^2-d^2)}$	$\frac{\pi n \sqrt{2(D^2+d^2)}}{2 \times 10^3}$
		$\frac{\pi \theta \sqrt{2(D^2+d^2)}}{3.6 \times 10^3}$
滑块 sliding plate	$\frac{F}{BL}$	$\frac{60S}{T \times 10^3}$

F: 垂直承载 uprightness load (N)

d: 轴承内径 inside diameter of the bushing (mm)

D: 轴承外径 outside diameter of the bushing (mm)

B: 滑块宽度 the width of the sliding plate (mm)

L: 滑块长度 the length of the sliding plate (mm)

N: 回转数 the rotation times (rpm)

C: 往复次数 reciprocating times (cpm)

θ : 摇摆角 the rocking angle (℃)

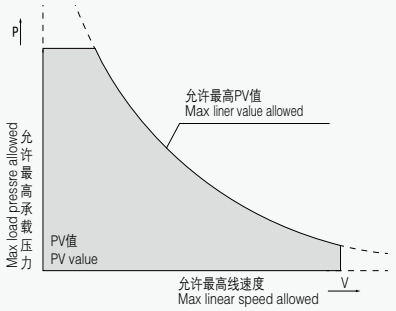
S: 往复长度 the length of the reciprocation (mm)

T: 往复一次需要的时间 (sec)
time spenging in each reciprocation

4. 最大PV值 Max PV value

所谓最大PV值是在轴承设计时，在轴承的单位投影面积内所承受的载荷及线速度乘积之最大值，使用时请勿超越此值，在设计时应在图1实线范围内.

The so-called max PV value means the max value of the load in the unit projection of the bushing multiplying the linear speed. Do not exceed the value when using it. When designing please be in the range of Fig 1.



图Fig 1：轴承PV值图

对磨轴的条件 The Condition To The Corresponding Frictionshaft

SRI05(500#)固体润滑轴承的使用寿命，磨损量，最高PV值，最高使用温度等都受对磨轴材质等条件的影响。

The service life, wear depth, max value and max using temperature of the #500 solid-lubricant-inlaid bushing are all influenced by the corresponding friction shaft material.

1. 对磨轴的材质和硬度
The material and hardness of the corresponding bushing

一般情况下使用轴承时，对磨轴的材质可以选用35#以上优质碳素结构钢，Cr12轴承钢或9SiCr合金工具钢等，以上材质经淬火，调质，表面处理后硬度超过轴承硬度，就能收得到比较理想的效果，但当有硬性杂质侵入时，应尽可能选用硬度较高的轴材料，可以得到更好的使用效果。

In most cases, the material of the corresponding friction shaft can be the upwards #35 superior carbon structure steel, Cr12 steel alloy or 9SiCr tool steel alloy. All the above materials are quenched, mixed and surface dealt to reach an ideal effect. But when foreign matters come into, higher hardness bushing materials should be used in order to get better effects.

2. 表面粗糙度
The surface roughness

对磨轴表面粗糙度过大时，轴与轴承的凸起部分会切断油膜，造成两者直接接触，因此，提高对磨轴的表面粗糙度，尽可能缩小油膜间隙，使其接近流体润滑的状态，这样就能提高轴承的使用寿命，一般情况下，我们推荐轴承的表面粗糙度应在Ra0.4以上。

When the surface roughness of the corresponding friction shaft is too large, the bulge of the shaft and the bushing may cut down the oil film so it may cause the direct connection between the two parts. So enhancing the surface roughness of the corresponding. Friction shaft can reduce the space of the oil film and be close to the lubricant state so that it can prolong the service life of the bushing. Generally, the surface roughness we recommended is above Ra0.4.

3. 表面处理
The surface treatment

通常情况下，在对磨轴表面所做处理的目的，大致可分为以下三项：

In most cases, the purpose of the treatment to the correspon-ding friction shaft can be divided into 3 items:

a. 提高耐蚀性;
Enhance the corrosion resistance;
b. 提高表面硬度;
Enhance the SU rface hardness of the surface;
c. 使表面光滑，提高润滑性能。
Make the surface flat and enhance the lubricant properties.

对磨轴进行电镀处理，可提高其耐蚀性，而且能够有效防止粗糙磨损，以及提高润滑性能等，同样当对磨轴生锈时，所产生氧化物与异物侵入，同样会出现磨损加剧，因此，我们建议使用者在对磨轴上镀硬铬，另外，在高载荷，微小摇摆运动时，将对磨轴进行适当的热处理也会收到良好的效果，又如在海水中等类似的腐蚀条件下，对磨轴镀上二至三层硬铬，是很有必要的。

It can enhance the corrosion resistance and prevent the roughness wear by the treatment to the corresponding friction shaft, it can also enhance the lubricant property. When the corresponding friction shaft is stain, the coming of the hard oxygen and the foreign matters may also cause an increase in the wear. So we recommend the users plate rigidity chrome on the corresponding friction shaft. Besides, it will get a good result by proper heat treatment on the corresponding friction shaft. It is also necessary to plate two or three rigidity chrome on the corresponding friction shaft.

轴承宽度、厚度 The Wall-Thickness and The Height of The Bushing

1. 轴承高度
Theheightofthebushing

轴承内径是由对磨轴的轴径所决定，所以在受载荷条件下，轴承宽度受轴承承载压力P(N/mm^2)所决定，轴承越宽，其所承受的承载压强相对减小，但此时可能会造成偏位接触，或冷却效果降低，导致轴承寿命减短，相反，轴承宽度太窄时，润滑油会很快从轴承端面流出，因此很难形成油膜，轴承性能相应降低。

The inside diameter of the bushing depends on the shaft diameter of the corresponding friction shaft. So under the load conditions, the heigth of the bushing depends on the load pressure the bushing bears. Thicker the bushing is, lower the intensity of the pressure is. But it may cause the Lean cortact or the decrease of the cooling effect and reduce the bushing life. Contrarily, if the length of the bushing is too short, the lubricant may flow out quickly so that may be difficult to form the oil filmand decrease the bushing property accordingly.

一般轴承以L/D(轴承宽度/轴承内径)的比例在0.5-3的范围内为适当，但应特别注意在高载荷，易引起偏位接触，高转速时引起的发热情形，此时L/D取1以下较适当。

Generally, the proportion of the height of the bushing and the inside diameter of the bushing should be in the scale of 0.5 to 3. But special attention should be paid that heat condition may cause under high load lean contact and high running speed.Then L/d should be below 1.

2. 轴承壁厚The wall-thickness of the bushing

滑动轴承跟滚动轴承相比，其壁厚限制较小，壁厚薄为其主要的优点之一。

Comparing to the sliding bushing, the wall-thickness of thiskind of bushing has little limit Thin wall-thickness is one of themain advantage.

一般情况下，壁厚 In most cases, the wall-thickness
t= (0.05-0.07)d+ (2-5)mm

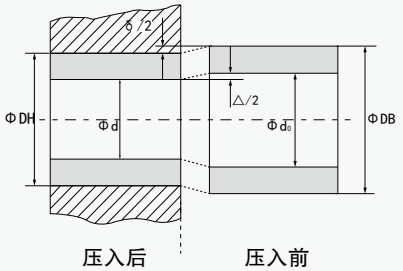
当轴承压入座孔后(如图2)，压入时的压力使轴承内外径收缩，这时，外径过盈量δ和内径收缩量△的关系，受座孔强度，材质，表面粗糙度，压入方式等因素而变化。

When the bushing is pressed into the housing, as Fig 2, the pressure put into makes the contraction of both the inside and outside diameter. Then the relation of the OD surplus "δ" and the ID shrinkage "△"is affected by the strength material, the roughness of the surface and the pressing method of the hole.

当座孔强度足够，材质为铁系，轴承材质为铜合金时，内径收缩量△可用下式表示式中：

When the strength of the housing is enough, the material is iron and the bushing material is brass alloy, the shrinkage can be shown as the following formula.

$$\triangle = \frac{10D_B d_0}{7D_B^2+3d_0^2}\times\delta$$



图Fig 2：轴承压入示意图

In the formula:

△：轴承内径收缩量(mm)
△:The shrinkage of the bushing inside diameter(mm)

δ：轴承外径过盈量(mm)
δ:The surplus quantity of the bushing outside diameter(mm)

d_0：压入前轴承内径(mm)
d_0:The inside diameter of the bushing before pressing into

D_B：压入前轴承外径(=D_B-D_H)(mm)
D_B:The outside diameter of the bushing before pressing into(=D_B-D_N) (mm)

D_H：座孔内径(mm)
D_H: The inside diameter of the housing(mm)

D：压入後轴承内径(d_0-△)(mm)
D: The inside diameter of the bushing after pressing into(d_0-△)

例：用JDB 40 50 30 轴承压入Φ50H7座孔後，计算其内径收缩量δ

e.g. calculate the shrinkage of the inside diameter after pressing JDB 40 50 30 bushing into the 50H7 housing

1. JDB 40 50 30压入前尺寸
The dimension of the JDB 40 50 30 before pressing into

轴承内径The inside diameter of the bushing:
d_0 =Φ40F7=$\Phi 40^{+0.050}_{+0.025}$

轴承外径The outside diameter of the bushing:
D_B=Φ50m6=$\Phi 50^{+0.025}_{+0.009}$

座孔内径The inside diameter of the hole:
D_H=Φ50H7=$\Phi 50^{+0.025}_{0}$

2. 压入後轴承外径过盈量δ
The outside diameter surplus quantity of the bushing after pressing into δ

$\delta_{max}=D_{Bmax}-D_{Hmin}=50.025-50=0.025mm$

$\delta_{min}=D_{Bmin}-D_{Bmax}=50.009-50.025=-0.016mm$

3. 压入後轴承内径收缩量△
The inside diameter shrinkage of the bushing after pressing into△

$$\triangle = \frac{10D_B d_0}{7D_B^2+3d_0^2}\times\delta \qquad \frac{10\times 50\times 40}{7\times 50^2+3\times 40^2}\times\delta$$

$=0.89686\times\delta$

$\triangle_{max}=0.89686\times\delta_{max}\approx 0.022mm$

$\triangle_{min}=0$

4. 压入後轴承内径
The inside diameter of bushing after pressing into

$d=d_0-\triangle$

$D_{max}=d_{0max}-\triangle_{min}=40.050-0=40.050$

$D_{min}=d_{min}-\triangle_{max}=40.025-0.022=40.003$

即轴承压入座孔后的内径公差为
The tolerance of the inside diameter after the bushing putting into the housing

$\Phi d=\Phi 40^{+0.050}_{+0.003}$

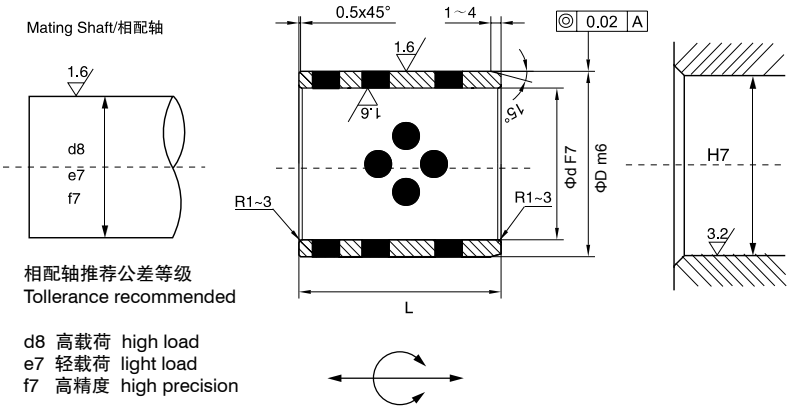
SRI05
固体镶嵌自润滑轴承 Oilless Cylindrical Bushing

SHANGHAI RICH INTERNATIONAL



材料：高力黄铜＋固体润滑剂
Material: CuZn25Al5Mn4Fe3
＋Graphite(500#SP)

相配座孔公差等级推荐H7
Housing tollerance recommended H7



相配轴推荐公差等级
Tollerance recommended

d8 高载荷 high load
e7 轻载荷 light load
f7 高精度 high precision

运动方向
Slide direction

I.D. Φd 内径 F7		O.D. ΦD 外径 m6		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	●	●	●	●										
10	〃	14	〃	●	●	●	●		●								
12	+0.034 +0.016	18	〃		●	●	●	●	●	●	●						
13	〃	19	+0.021 +0.008		●		●	●									
14	〃	20	〃		●	●	●		●	●	●						
15	〃	21	〃		●	●	●	●	●	●	●						
16		22	〃		●	●	●	●	●	●	●	●	●				
18		24	〃			●	●	●	●	●	●	●	●				
20	+0.041 +0.020	28	〃		●	●	●	●	●	●	●	●	●	●			
20	〃	30	〃			●	●	●	●	●	●	●	●				
22	〃	32	+0.025 +0.009			●	●		●	●							
25	〃	33	〃			●	●	●	●	●	●	●	●	●	●		
30	〃	38	〃			●	●		●	●	●	●	●	●	●		
30	〃	40	〃			●	●		●	●	●	●	●	●			
32	+0.050 +0.025	42	〃			●	●	●	●	●	●	●	●	●	●		
35	〃	44	〃					●	●	●	●	●	●	●	●		
35	〃	45	〃						●	●	●	●	●	●	●		
40	〃	50	〃						●	●	●	●	●	●	●	●	●
45	〃	55	+0.030 +0.011								●	●	●	●	●		
50	〃	60	〃								●	●	●	●	●	●	●

SRI05

固体镶嵌自润滑轴承 **Oilless Cylindrical Bushing**

SHANGHAI RICH INTERNATIONAL

I.D. Φd 内径 F7		O.D. ΦD 外径 m6		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	●	●	●	●	●	●						
50	〃	65	〃	●		●	●	●	●	●	●				
55	+0.060 +0.030	70	〃			●	●	●	●						
60	〃	74	〃	●	●	●	●	●	●	●					
60	〃	75	〃	●	●	●	●	●	●	●	●				
63	〃	75	〃					●	●	●					
65	〃	80	〃				●	●	●	●					
70	〃	85	+0.035 +0.013		●	●	●	●	●	●	●				
70	〃	90	〃				●	●	●	●					
75	〃	90	〃					●	●	●	●				
75	〃	95	〃					●	●	●	●				
80	〃	96	〃			●	●	●	●	●	●	●			
80	〃	100	〃			●	●	●	●	●	●	●		●	
90	+0.071 +0.036	110	〃				●	●	●	●	●	●			
100	〃	120	〃					●	●	●	●	●		●	
110	〃	130	+0.040 +0.015							●	●	●			
120	〃	140	〃							●	●	●		●	
125	+0.083 +0.043	145	〃								●	●			
130	〃	150	〃								●		●		
140	〃	160	〃								●			●	
150	〃	170	〃								●				●
160	〃	180	〃								●				●

How to order: Code d D L
订单方式： SRI05 08 10 12

SRI05FB

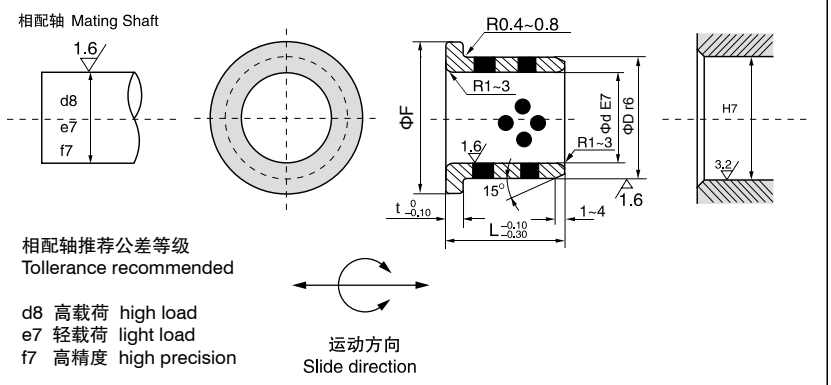
翻边自润滑轴承 Oilless Flanged Bushing

SRI SHANGHAI RICH INTERNATIONAL



Material: CuZn25Al5Mn4Fe3
+Graphite(500#SP)
材料：高力黄铜+固体润滑剂

相配座孔公差等级推荐H7
Housing tollerance recommended H7



相配轴推荐公差等级
Tollerance recommended

d8 高载荷 high load
e7 轻载荷 light load
f7 高精度 high precision

运动方向
Slide direction

I.D. Φd 内径 E7		O.D. ΦD 外径 r6		Flange 翻边 ΦF	Flange 翻边 t 0 −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	●	●								
12	+0.050 +0.032	18	〃	25	3	●	●								
13	〃	19	+0.041 +0.028	26	〃	●	●								
14	〃	20	〃	27	〃	●	●								
15	〃	21	〃	28	〃	●	●	●	●						
16	〃	22	〃	29	〃	●	●	●	●						
18	〃	24	〃	32	〃	●	●	●	●						
20	+0.061 +0.040	28	〃	40	5	●	●	●	●		●				
20	〃	30	〃	40	〃	●	●	●	●		●				
25	〃	35	+0.050 +0.034	45	〃	●	●	●	●		●				
30	〃	38	〃	40	〃		●	●	●	●	●	●			
30	〃	40	〃	50	〃		●	●	●	●	●	●			
31.5	+0.075 +0.050	40	〃	〃	〃		●			●					
35	〃	45	〃	60	〃		●		●		●	●			
40	〃	50	〃	65	〃		●		●		●	●			
45	〃	55	+0.060 +0.041	70	〃				●		●	●	●		
50	〃	60	〃	75	〃				●		●	●	●		
55	+0.090 +0.060	65	〃	80	〃						●		●		
60	〃	75	+0.062 +0.043	90	7.5						●	●		●	
63	〃	75	〃	95	〃									●	
70	〃	85	+0.073 +0.051	105	〃							●		●	
75	〃	90	〃	110	〃								●		
80	〃	100	〃	120	10								●	●	●
90	+0.107 +0.072	110	+0.076 +0.054	130	〃								●	●	
100	〃	120	〃	150	〃									●	●
120	〃	140	+0.088 +0.063	170	〃									●	●

How to order: Code d D L
订单方式： SRI05FB 10 14 15

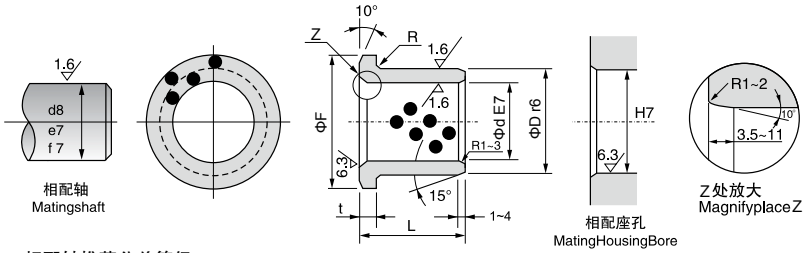
SRI05FBB

自润滑翻边轴承 Oilless Flanged Bushing

SHANGHAI RICH INTERNATIONAL



Material: CuZn25Al5Mn4Fe3
+Graphite(500#SP)
材料：高力黄铜+固体润滑剂



相配轴推荐公差等级
Tollerance recommended

d8 高载荷 high load
e7 轻载荷 light load
f7 高精度 high precision

Part No. 产品代号	I.D. Φd 内径 E7	O.D. ΦD 外径 r6	ΦF	t	L $^{-0.10}_{-0.30}$
SRI05FBB-1211	12 $^{+0.050}_{+0.032}$	18 $^{+0.034}_{+0.023}$	30 $^{0}_{-0.3}$	3 $^{0}_{-0.03}$	11
SRI05FBB-1223	"	"	"	"	23
SRI05FBB-1513	15 $^{+0.050}_{+0.032}$	21 $^{+0.041}_{+0.028}$	35 $^{0}_{-0.3}$	"	13
SRI05FBB-1613	16 $^{+0.050}_{+0.032}$	22 $^{+0.041}_{+0.028}$	"	"	13
SRI05FBB-1618	"	"	"	"	18
SRI05FBB-1818	18 $^{+0.050}_{+0.032}$	24 $^{+0.041}_{+0.028}$	40 $^{0}_{-0.3}$	"	18
SRI05FBB-2020	20 $^{+0.061}_{+0.040}$	28 $^{+0.041}_{+0.028}$	45 $^{0}_{-0.3}$	5 $^{0}_{-0.03}$	20
SRI05FBB-2025	"	"	"	"	25
SRI05FBB-2520	25 $^{+0.061}_{+0.040}$	33 $^{+0.050}_{+0.034}$	50 $^{0}_{-0.3}$	"	20
SRI05FBB-2525	"	"	"	"	25
SRI05FBB-3025	30 $^{+0.061}_{+0.040}$	38 $^{+0.050}_{+0.034}$	55 $^{0}_{-0.3}$	"	25
SRI05FBB-3035	"	"	"	"	35
SRI05FBB-3525	35 $^{+0.075}_{+0.050}$	44 $^{+0.050}_{+0.034}$	62 $^{0}_{-0.3}$	"	25
SRI05FBB-3535	"	"	"	"	35
SRI05FBB-4027	40 $^{+0.075}_{+0.050}$	50 $^{+0.050}_{+0.034}$	70 $^{0}_{-0.3}$	7 $^{0}_{-0.03}$	27
SRI05FBB-4037	"	"	"	"	37
SRI05FBB-4047	"	"	"	"	47
SRI05FBB-5038	50 $^{+0.075}_{+0.050}$	62 $^{+0.060}_{+0.041}$	90 $^{0}_{-0.3}$	8 $^{0}_{-0.04}$	38
SRI05FBB-5048	"	"	"	"	48
SRI05FBB-5058	"	"	"	"	58
SRI05FBB-6038	60 $^{+0.090}_{+0.060}$	74 $^{+0.062}_{+0.043}$	110 $^{0}_{-0.3}$	"	38
SRI05FBB-6068	"	"	"	"	68
SRI05FBB-7050	70 $^{+0.090}_{+0.060}$	85 $^{+0.073}_{+0.051}$	120 $^{0}_{-0.3}$	10 $^{0}_{-0.04}$	50
SRI05FBB-7080	"	"	"	"	80
SRI05FBB-8060	80 $^{+0.090}_{+0.060}$	96 $^{+0.073}_{+0.051}$	140 $^{0}_{-0.3}$	"	60
SRI05FBB-8090	"	"	"	"	90

How to order: Part No. d L
订单方式： SRI05FBB 12 11

SRI05TW / SRI05TWN

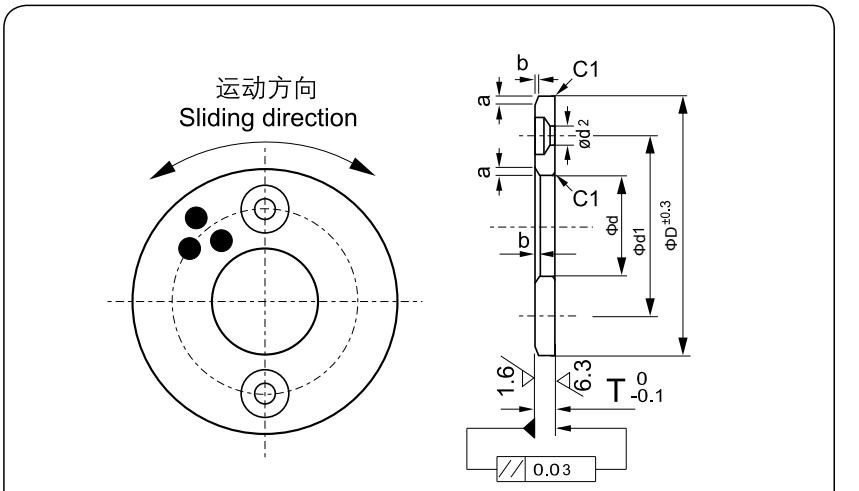
标准止推垫片 Oilless Thrust Washer

SHANGHAI RICH INTERNATIONAL



SRI05TW 有螺栓孔型垫片
Type with holes

Material: CuZn25Al5Mn4Fe3
+Graphite(500#SP)
材料：高力黄铜+固体润滑剂



产品代号 Part No.	I.D. Φd 内径	O.D. ΦD 外径	T 0 -0.1	螺栓 Bolt			d2	倒角 Chamfer	
				d1	数量 Q'ty	尺寸 Size		a	b
SRI05TW -10	10.2 +0.2 +0.1	30	3	20	2	M3	3.5	1.5	0.3
SRI05TW -12	12.2 〃	40	〃	28	〃	〃	〃	2	0.4
SRI05TW -1203N	12.2 〃	〃	〃	-	-	-	-	〃	〃
SRI05TW -1303	13.2 〃	〃	〃	28	2	M3	3.5	〃	〃
SRI05TW -1403	14.2 〃	〃	〃	〃	〃	〃	〃	〃	〃
SRI05TW -1503	15.2 〃	50	〃	35	〃	〃	〃	〃	〃
SRI05TW -1603	16.2 〃	〃	〃	〃	〃	〃	〃	〃	〃
SRI05TW -1603N	16.2 〃	〃	〃	-	-	-	-	〃	〃
SRI05TW -1803	18.2 〃	〃	〃	35	2	M3	3.5	〃	〃
SRI05TW -2005	20.2 〃	〃	5	〃	〃	M5	6	2.5	〃
SRI05TW -2505	25.2 〃	55	〃	40	〃	〃	〃	〃	〃
SRI05TW -3005	30.2 〃	60	〃	45	〃	〃	〃	〃	〃
SRI05TW -3505	35.2 〃	70	〃	50	〃	〃	〃	〃	〃
SRI05TW -4007	40.2 〃	80	7	60	〃	M6	7	3	0.5
SRI05TW -4507	45.2 +0.3 +0.1	90	〃	70	〃	〃	〃	〃	〃
SRI05TW -5008	50.3 〃	100	8	75	4	〃	〃	4	0.6
SRI05TW -5508	55.3 〃	110	〃	85	〃	〃	〃	〃	〃
SRI05TW -6008	60.3 〃	120	〃	90	〃	M8	9	5	0.8
SRI05TW -6508	65.3 〃	125	〃	95	〃	〃	〃	〃	〃
SRI05TW -7010	70.3 〃	130	10	100	〃	〃	〃	〃	〃
SRI05TW -7510	75.3 〃	140	〃	110	〃	〃	〃	〃	〃
SRI05TW -8010	80.3 〃	150	〃	120	〃	〃	〃	〃	〃
SRI05TW -9010	90.5 〃	170	〃	140	〃	M10	11	〃	〃
SRI05TW -10010	100.5 〃	190	〃	160	〃	〃	〃	〃	〃
SRI05TW -12010	120.5 〃	200	〃	175	〃	〃	〃	4	〃

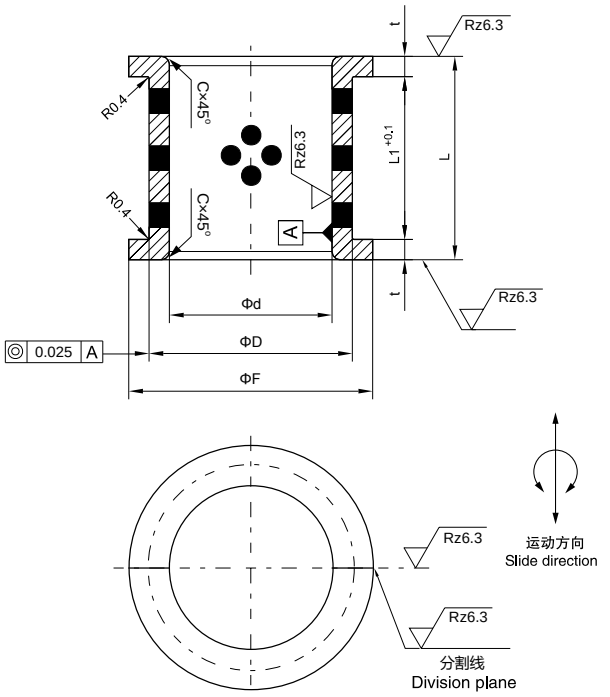
How to order: Part No. d
订单方式: SRI05TW 10

SRI05FFB
自润滑轴瓦 Half-Bearing

SHANGHAI RICH INTERNATIONAL



材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite(500#SP)



产品代号 Part No.V	I.D. Φd 内径 H7	O.D. ΦD 外径		ΦF d11	L h12	L1 +0.1 0	t	C
SRI05FFB-030	30	38	s6	48	34	22	6	1
SRI05FFB-035	35	45	〃	55	45	32	6.5	〃
SRI05FFB-040	40	50	〃	60	50	35	7.5	〃
SRI05FFB-045	45	55	〃	65	55	40	7.5	〃
SRI05FFB-050	50	60	〃	70	60	45	7.5	〃
SRI05FFB-060	60	70	〃	80	70	50	10	2
SRI05FFB-070	70	85	〃	95	80	60	10	〃
SRI05FFB-080	80	95	〃	110	95	70	12.5	〃
SRI05FFB-090	90	105	〃	120	105	80	12.5	〃
SRI05FFB-100	100	115	〃	130	115	90	12.5	〃
SRI05FFB-110	110	125	r6	140	125	100	12.5	〃
SRI05FFB-120	120	135	〃	150	140	110	15	〃
SRI05FFB-140	140	160	〃	175	160	120	20	〃
SRI05FFB-160	160	180	〃	200	180	140	20	〃

How to order: Part No. d
订单方式： SRI05FFB 030

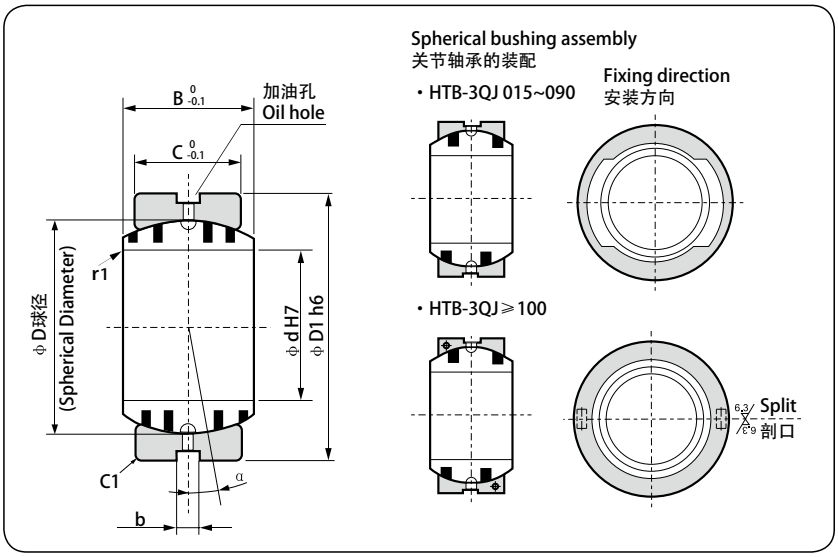
SRI05DBS

标准自润滑球铰 Oilless Spherical Plain Bearing

SHANGHAI RICH INTERNATIONAL



内圈 Inner ring
材料: 高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#SP)
外圈 Outer ring
材料 Material: S45C
硬度 Hardness: HRC 25~30



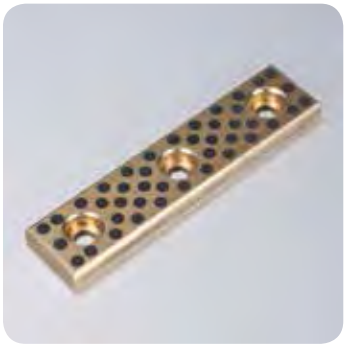
产品代号 Part No.	d H7	D1 h6	B	C	D	b	调整角度 Alignment Angle α°	径向承载 Allowable Radial Load (kN)	径向承载 Allowable Thrust Load (kN)
SRI05DBS-015	15 +0.018 0	26 0 -0.013	12	9	22	4	8	6.5	0.5
SRI05DBS-020	20 +0.021 0	32 0 -0.016	16	14	28	〃	4	12.6	1.4
SRI05DBS-025	25 〃	42 〃	21	18	36	〃	5	21.8	2.5
SRI05DBS-030	30 〃	50 〃	27	23	44	〃	6	32.0	3.5
SRI05DBS-035	35 +0.025 0	55 0 -0.019	30	26	49	〃	5	43.7	4.8
SRI05DBS-040	40 〃	62 〃	33	28	55	〃	6	54.7	5.7
SRI05DBS-045	45 〃	72 〃	36	31	62	〃	5	69.7	7.2
SRI05DBS-050	50 〃	80 〃	42	36	70	〃	〃	92.4	10
SRI05DBS-060	60 +0.030 0	100 0 -0.022	53	45	90	〃	6	143	16
SRI05DBS-070	70 〃	110 〃	58	50	99	〃	5	181	20
SRI05DBS-080	80 〃	130 〃	70	60	115	〃	6	254	30
SRI05DBS-090	90 +0.035 0	140 0 -0.025	76	65	125	〃	〃	313	36
SRI05DBS-100	100 〃	160 〃	88	75	145	6	〃	544	64
SRI05DBS-110	110 〃	170 〃	93	80	155	〃	5	642	73
SRI05DBS-120	120 〃	190 0 -0.029	105	90	17	〃	6	797	94
SRI05DBS-130	130 +0.040 0	200 〃	110	95	180	〃	5	880	105
SRI05DBS-140	140 〃	210 〃	90	70	〃	〃	7	668	56
SRI05DBS-150	150 〃	220 〃	120	105	200	〃	5	1135	129
SRI05DBS-160	160 〃	230 〃	105	80	〃	〃	8	891	73
SRI05DBS-180	180 〃	260 0 -0.032	105	〃	225	〃	6	1002	74
SRI05DBS-200	200 +0.046 0	290 〃	130	100	250	〃	7	1434	117
SRI05DBS-220	220 〃	320 0 -0.036	135	〃	275	〃	8	1577	118
SRI05DBS-240	240 〃	340 〃	140	〃	300	9	〃	1720	〃
SRI05DBS-260	260 +0.052 0	370 〃	150	110	325	〃	7	2072	143
SRI05DBS-280	280 〃	400 〃	155	120	350	〃	6	2455	172
SRI05DBS-300	300 〃	430 0 -0.040	165	120	375	〃	7	2630	〃

How to order: Part No. d
订单方式: SRI05DBS 015

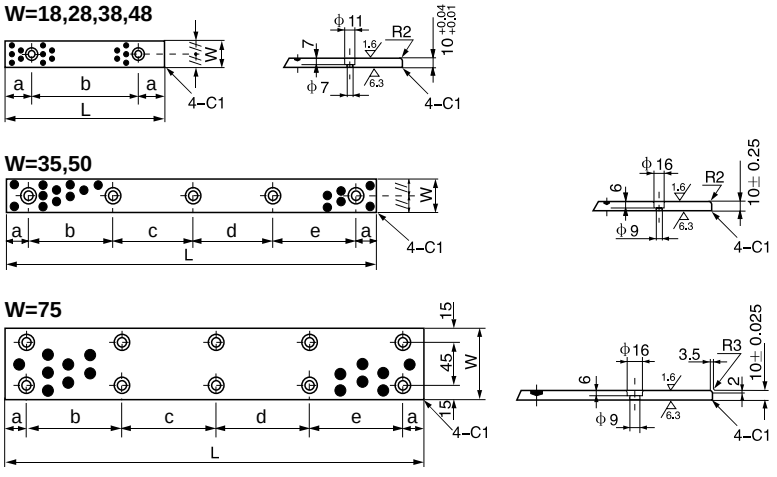
SRI05SP

标准自润滑耐磨板 Oilless Wear Plate

SHANGHAI RICH INTERNATIONAL



材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#SP)



产品代号 Part No.	W	L	a	b	c	d	e	平头螺孔尺寸 Flat Head Screw Choose	孔数 Q'ty of Holes
SRI05SP-1875	18	75	15	45	—	—	—	M6	2
SRI05SP-18100	〃	100	25	50	〃	〃	〃	〃	〃
SRI05SP-18125	〃	125	〃	75	〃	〃	〃	〃	〃
SRI05SP-18150	〃	150	〃	100	〃	〃	〃	〃	〃
SRI05SP-2875	28	75	15	45	〃	〃	〃	〃	〃
SRI05SP-28100	〃	100	25	50	〃	〃	〃	〃	〃
SRI05SP-28125	〃	125	〃	75	〃	〃	〃	〃	〃
SRI05SP-28150	〃	150	〃	100	〃	〃	〃	〃	〃
SRI05SP-35100	35	100	20	60	〃	〃	〃	M8	〃
SRI05SP-35150	〃	150	〃	55	55	〃	〃	〃	3
SRI05SP-35200	〃	200	〃	55	50	55	〃	〃	4
SRI05SP-35250	〃	250	〃	70	70	70	〃	〃	〃
SRI05SP-35300	〃	300	〃	65	65	65	65	〃	5
SRI05SP-35350	〃	350	〃	80	75	75	80	〃	〃
SRI05SP-3875	38	75	15	45	—	—	—	M6	2
SRI05SP-38100	〃	100	25	50	〃	〃	〃	〃	〃
SRI05SP-38125	〃	125	〃	75	〃	〃	〃	〃	〃
SRI05SP-38150	〃	150	〃	100	〃	〃	〃	〃	〃
SRI05SP-4875	48	75	15	45	〃	〃	〃	〃	〃
SRI05SP-48100	〃	100	25	50	〃	〃	〃	〃	〃
SRI05SP-48125	〃	125	〃	75	〃	〃	〃	〃	〃
SRI05SP-48150	〃	150	〃	100	〃	〃	〃	〃	〃
SRI05SP-50100	50	100	20	60	—	—	—	M8	〃
SRI05SP-50150	〃	150	〃	55	55	〃	〃	〃	3
SRI05SP-50200	〃	200	〃	〃	50	55	〃	〃	4
SRI05SP-50250	〃	250	〃	70	70	70	〃	〃	〃
SRI05SP-50300	〃	300	〃	65	65	65	65	〃	5
SRI05SP-50400	〃	400	〃	90	90	90	90	〃	〃
SRI05SP-75150	75	150	〃	110	—	—	—	〃	4
SRI05SP-75200	〃	200	〃	80	80	〃	〃	〃	6
SRI05SP-75250	〃	250	〃	105	105	〃	〃	〃	〃
SRI05SP-75300	〃	300	〃	85	90	85	〃	〃	8
SRI05SP-75400	〃	400	〃	120	120	120	〃	〃	〃
SRI05SP-75500	〃	500	〃	115	115	115	115	〃	10

How to order: Part No. W L
订单方式: SRI05SP 18 75

SRI05SL

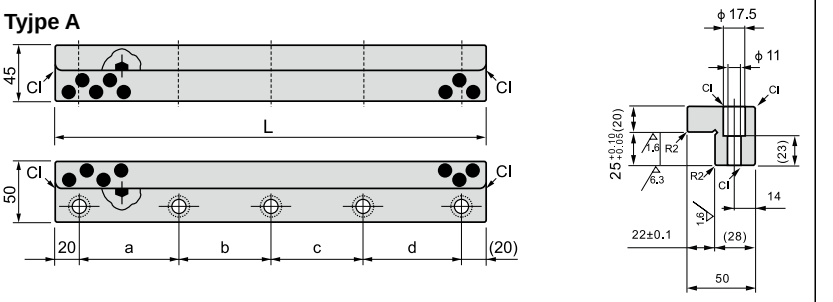
L 型标准自润滑耐磨板　L-Gib Oilless Wear Plate

SHANGHAI RICH INTERNATIONAL

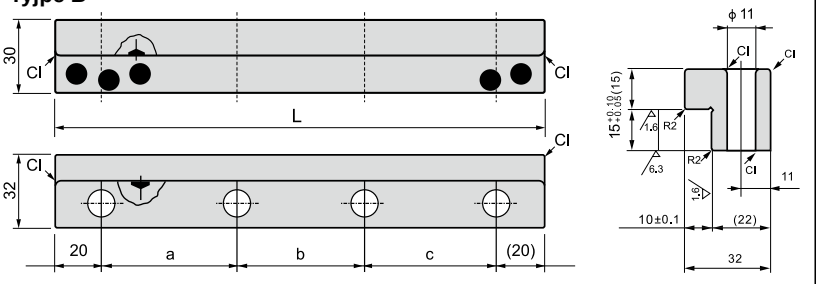


材料：高力黄铜＋固体润滑剂
Material: CuZn25Al5Mn4Fe3
＋Graphite (500#SP)

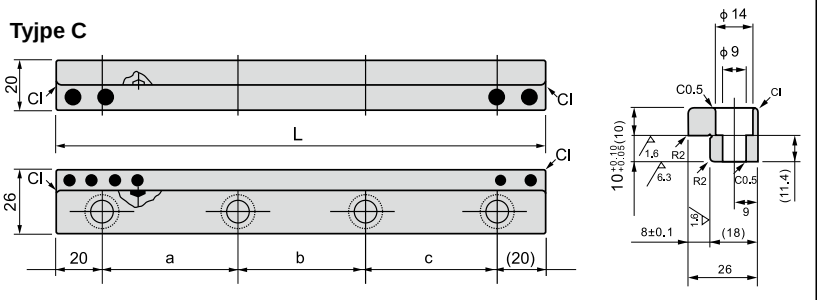
Tyjpe A



Tyjpe B



Tyjpe C



产品代号 Part No.	Type	W	L	a	b	c	d	Bolt 螺栓孔	
								Size 尺寸	Q'ty 数量
SRI05SL-26100	C	26	100	60	---	---	---	M8	2
SRI05SL-26150	〃	〃	150	55	55	---	---	〃	3
SRI05SL-26200	〃	〃	200	〃	50	55	---	〃	4
SRI05SL-32100	B	32	100	60	---	---	---	M10	2
SRI05SL-32150	〃	〃	150	55	55	---	---	〃	3
SRI05SL-32200	〃	〃	200	〃	50	55	---	〃	4
SRI05SL-32250	〃	〃	250	70	70	70	---	〃	〃
SRI05SL-50200	A	50	200	55	50	55	---	〃	〃
SRI05SL-50250	〃	〃	250	70	70	70	---	〃	〃
SRI05SL-50300	〃	〃	300	65	65	65	65	〃	5
SRI05SL-50350	〃	〃	350	80	75	75	80	〃	〃

How to order: Part No. W L
订单方式: SRI05SL 26 100

RGB9834

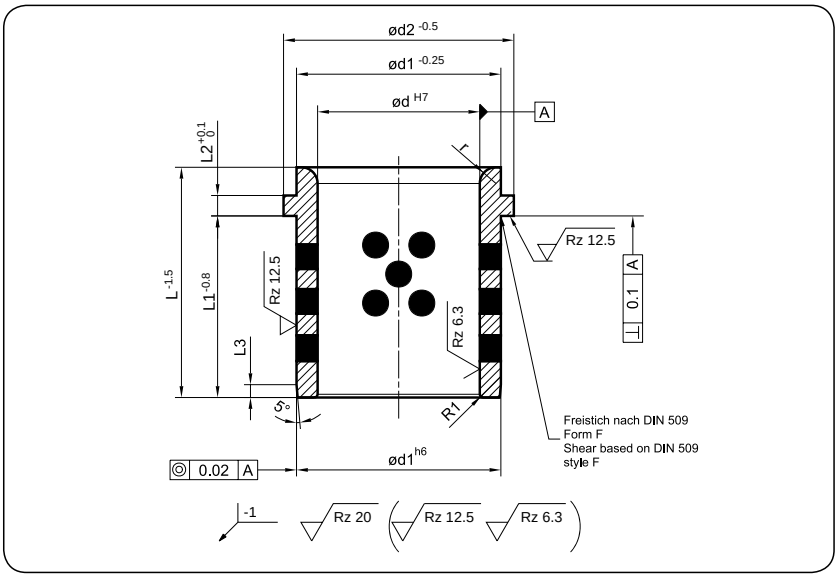
The Standard Identical with: VW/AUDI 39D860 OPEL U2802-95
DIN9834 ISO9448 BMW B2 293312082.70

欧系标准汽车冲压模具导套 **Oilless Guide bushing & Clamps**

SRI
SHANGHAI RICH INTERNATIONAL

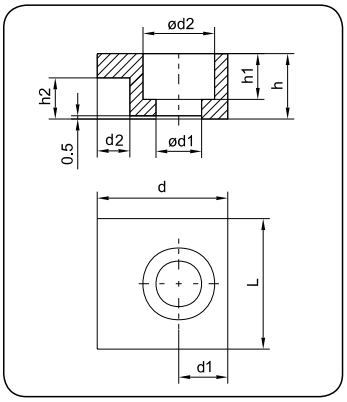


RGB9834
材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#SP)



产品代号 Part No.	d	d1	d2	L	L1	L2	L3	r
RGB9834 798	25	32	40	32	22	6,3	4	3
RGB9834 799	〃	〃	〃	40	30	〃	〃	〃
RGB9834 797	〃	〃	〃	〃	32	〃	〃	〃
RGB9834 796	24	〃	〃	〃	〃	〃	〃	〃
RGB9834 800	32	40	50	50	40	〃	〃	〃
RGB9834 801	40	50	63	63	50	〃	5	〃
RGB9834 802	50	63	71	71	56	〃	6,3	5
RGB9834 803	63	80	90	80	63	10	8	6
RGB9834 804	80	100	112	100	80	〃	10	8
RGB9834 808	100	125	140	125	100	〃	12,5	10
RGB9834 805	〃	〃	〃	〃	106	〃	〃	〃
RGB9834 806	125	160	180	160	132	〃	16	12
RGB9834 807	160	200	220	200	170	〃	〃	18

How to order: Part No. d L L1
订单方式: RGB9834 25 32 22



产品代号 Part No.	d h9	L 0 -0.4	h h11	d1	d2 +0.3 0	h1 +0.2 0	h2 0 -0.3	d1 +0.2 0	d2 +0.2 0
RGB9832 798	20	20	10	7,5	5	7	6,3	7	11
RGB9832 799	32	32	16	11	10	11,5	10	11,5	17,5
RGB9832 784	25	20	12	10	5	8,5	6,3	9	15
RGB9832 785	32	25	16	11	10	11,5	6,3	11	18

How to order: Part No. d
订单方式: RGB9832 20

Material: 材料 Steel C45
Clamp ident. with DIN 9832

RGB61

NAAMS 日系汽车模具标准导套 NAAMS Standard Guide Bushing

SRI SHANGHAI RICH INTERNATIONAL



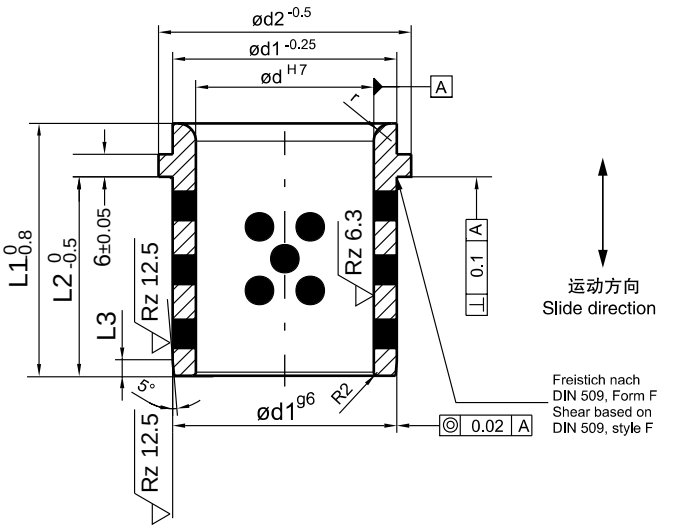
RGB61

材料：高力黄铜+固体润滑剂

Material: CuZn25Al5Mn4Fe3 +Graphite (500#SP)

按照NAAMS标准设计生产，通用可替换性强，无需认证。

Which Mataince-free/
Self-lubricating/Oilless



产品代号 Part No.	NAAMS Code	d	d1	d2	L1	L2	L3	r
RGB61 2540	G612540	25	32	40	40	30	4	3
RGB61 3250	G613250	32	40	50	50	40	〃	〃
RGB61 4063	G614063	40	50	63	63	50	5	〃
RGB61 5071	G615071	50	63	71	71	56	6	5
RGB61 6380	G616380	63	80	90	80	63	8	6
RGB61 80100	G618010	80	100	112	100	80	10	8
RGB61 10125	G611012	100	125	140	125	106	12	10
RGB61 115140	G611114	115	140	155	140	120	〃	〃
RGB61 125160	G611216	125	160	180	160	132	〃	12

How to order: Part No. d L1
订单方式: RGB61 25 40

RGB71

NAAMS 日系汽车模具标准导套 NAAMS Standard Guide Bushing

SHANGHAI RICH INTERNATIONAL

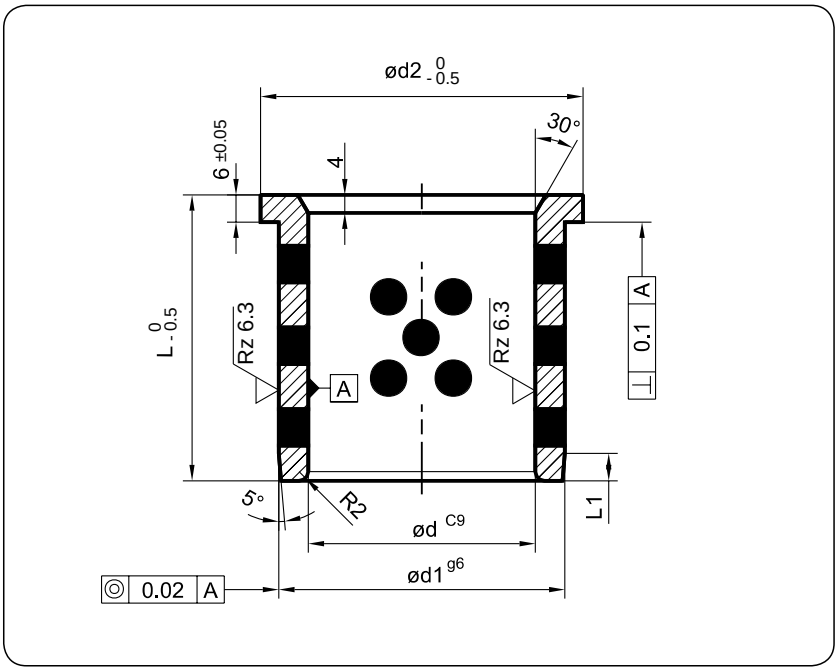


RGB71

材料：高力黄铜+固体润滑剂

Material: CuZn25Al5Mn4Fe3 +Graphite (500#SP)

按照NAAMS标准设计生产，通用可替换性强，无需认证。



产品代号 Part No.	NAAMS Code	d	d1	d2	L	L1
RGB71 2540	G712540	25	32	40	40	4
RGB71 3250	G713250	32	40	50	50	〃
RGB71 4055	G714055	40	50	63	55	5
RGB71 5063	G715063	50	63	71	63	6
RGB71 6375	G716375	63	80	90	75	8
RGB71 8090	G718090	80	100	112	90	10
RGB71 100115	G711011	100	125	140	115	12
RGB71 125138	G711213	125	160	180	138	〃

How to order: Part No. d L
订单方式: RGB71 25 40

RGPBW/MGPBF

日系汽车模具标准导套 **Standard Guide Bushing**

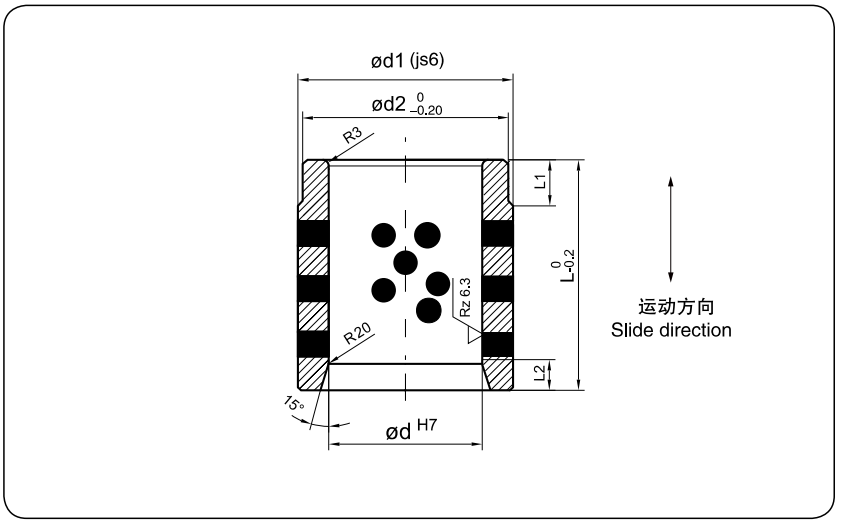
SRI SHANGHAI RICH INTERNATIONAL



RGPBW

材料：高力黄铜+固体润滑剂

Material: CuZn25Al5Mn4Fe3 +Graphite (500#SP)

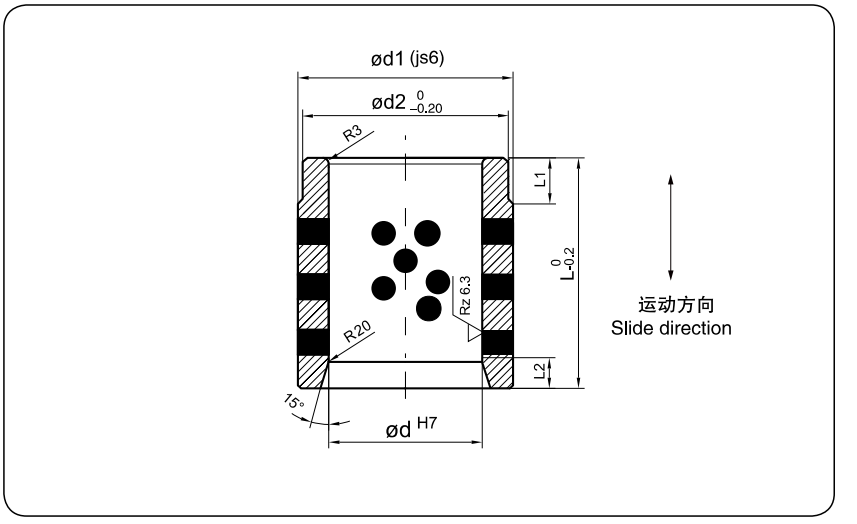




RGPBF

材料：铸铁+固体润滑剂

Material: HT250+Graphite (FC250)



产品代号 Part No.	产品代号 Part No.	d	d1	d2	L	L1	L2
RGPBW-30	RGPBF-30	30	50	49	50	10	5
RGPBW-35	RGPBF-35	35	60	59	55	15	〃
RGPBW-40	RGPBF-40	40	〃	〃	60	10	〃
RGPBW-50	RGPBF-50	50	70	69	75	15	10
RGPBW-60	RGPBF-60	60	80	79	90	20	〃
RGPBW-80	RGPBF-80	80	100	99	120	25	〃
RGPBW-100	RGPBF-100	100	120	119	150	〃	〃
RGPBW-120	RGPBF-120	120	140	139	180	〃	〃

How to order: Part No. d L

订单方式: RGPBW 30 50

RFB 2102.70.
RFB 2102.71.

模具导套 Oilless Guide Bushing

油沟纯铜导套 Solid bronze bushing with oil groove

SRI SHANGHAI RICH INTERNATIONAL



RFB 2102.70

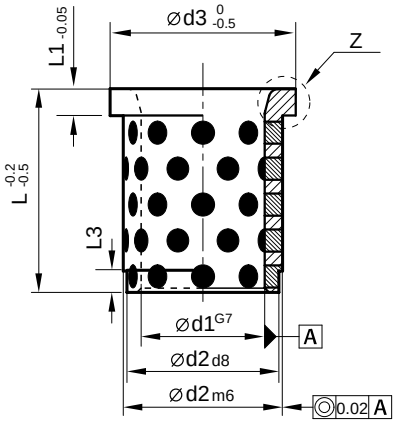
材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#SP)
推荐座孔 H6



RFB 2102.71

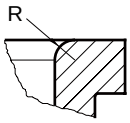
材质：纯高力黄铜 Soilde Bronze
Material: CuZn25Al5Mn4Fe3
推荐座孔 H6

RFB 2102.70

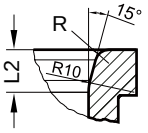


Z处放大
MagnifyplaceZ

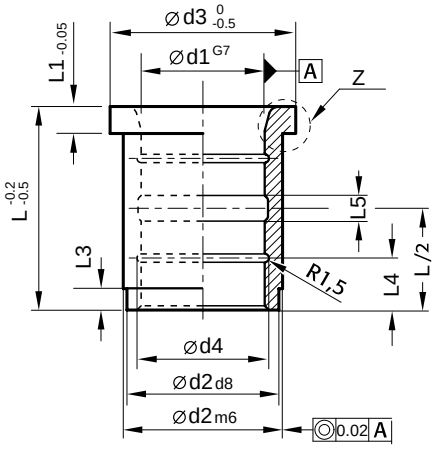
Detail-x to⌀d1⩽40



Detail-x to⌀d1＞40



RFB 2102.71



运动方向
Slide direction

产品代号 Part No.									
RFB 2102.70	RFB 2102.71								
d1	d1	20	25	32	40	50	63	80	100
d2	d2	28	35	44	52	63	80	100	125
d3	d3	32	40	50	60	71	90	112	140
d4	d4	22	27	34	42	52	65	82	102
L1	L1	4	5	6	8	10	12	16	20
L2	L2	——	——	——	——	8	10	10	10
L3	L3	3	5	8	8	8	10	10	10
	L4	——	——	12	16	20	25	32	40
	L5	5	5	5	8	10	12	16	20
R	R	2	2	3	3	3	3	4	4

How to order: Part No. d1
订单方式: RFB 2102.70. 20

How to order: Part No. d1
订单方式: RFB 2102.71. 20

RFB 2081.81. / RFB 2081.91.

钢基铜合金高精度导套 Steel with bronze backed high precision bearings

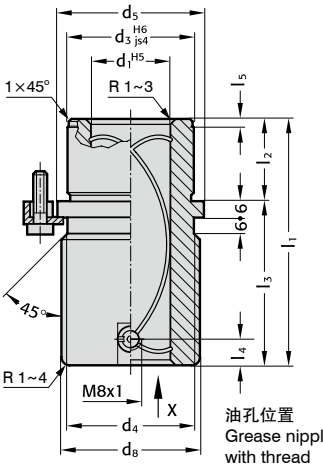
SHANGHAI RICH INTERNATIONAL



RFB 2081.81
RFB 2081.91
材料：S45C+合金铜
Material: S45C Steel+Bronze Alloy

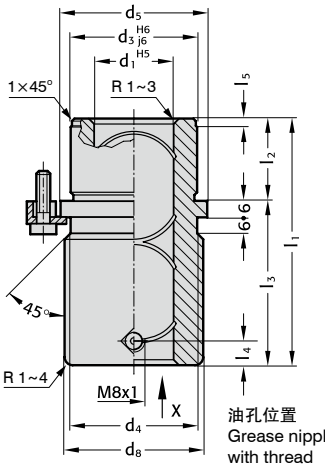
推荐座孔公差：H6级
Housing tollerance: H6

RFB 2081.81



油孔位置
Grease nipple
with thread
DIN 3405 -A M8 × 1

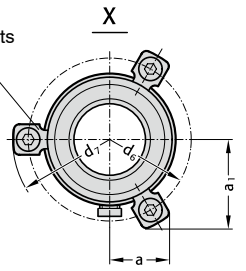
RFB 2081.91



油孔位置
Grease nipple
with thread
DIN 3405 -A M8 × 1

RFB 207.45

Order No. for replacement parts
Screw clamp
with cap screws
M6 × 20 similar
DIN 6912,
head Φ13,
(four clamps for size
Φd_1 = 38 mm and over)



RFB2081.81.	RFB2081.91.							
d_1	d_1	19 20	24 25	30 32	38 40	48 50	60 63	80
tol.	tol.	+0.012	+0.012	+0.015	+0.015	+0.015	+0.018	+0.018
		+0.003	+0.003	+0.004	+0.004	+0.004	+0.005	+0.005
d_3	d_3	32	40	48	58	70	85	105
d_4	d_4	〃	〃	〃	〃	〃	〃	〃
d_5	d_5	40	48	56	66	80	95	118
d_6	d_6	52	60	67	77	91	106	129
d_7	d_7	64.7	72.7	79.7	89.7	103.7	118.7	141.7
d_8	d_8	39	46	53	63	77	92	115
a	a	20.7	22.65	24.4	35.3	40.2	45.5	54.5
a_1	a_1	30	33.4	36.4	〃	〃	〃	〃
l_1	l_1	59	79	93	108	127	150	150
l_2	l_2	23	23	30	37	47	60	60
l_3	l_3	36	56	63	71	80	90	90
l_4	l_4	10	10	10	10	10	10	10
l_5	l_5	3	3	4	4	5	5	5

RFB 2081.85. / MFB 2081.95.

钢基铜合金高精度导套 **Steel with bronze backed high precision bearings**

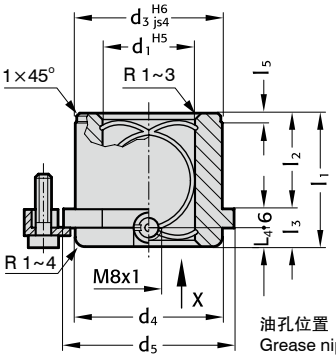
SHANGHAI RICH INTERNATIONAL



RFB 2081.85
RFB 2081.95
材料：S45C+合金铜
Material: S45C Steel+Bronze Alloy

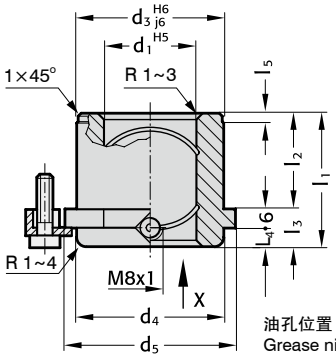
推荐座孔公差：H6级
Housing tollerance: H6

RFB 2081.85



油孔位置
Grease nipple
with thread
DIN 3405 -A M8 × 1

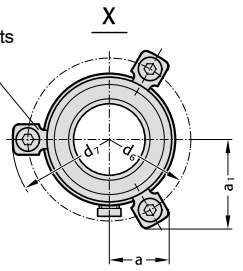
RFB 2081.95



油孔位置
Grease nipple
with thread
DIN 3405 -A M8 × 1

RFB 207.45

Order No. for replacement parts
Screw clamp
with cap screws
M6 × 20 similar
DIN 6912,
head Φ13,
(four clamps for size
Φd_1 = 38 mm and over)



RFB2081.85.	RFB2081.95.							
d_1	d_1	19 20	24 25	30 32	38 40	48 50	60 63	80
tol.	tol.	+0.012	+0.012	+0.015	+0.015	+0.015	+0.018	+0.018
		+0.003	+0.003	+0.004	+0.004	+0.004	+0.005	+0.005
d_3	d_3	32	40	48	58	70	85	105
d_4	d_4	〃	〃	〃	〃	〃	〃	〃
d_5	d_5	40	48	56	66	80	95	118
d_6	d_6	52	60	67	77	91	106	129
d_7	d_7	64.7	72.7	79.7	89.7	103.7	118.7	141.7
a	a	20.7	22.65	24.4	35.3	40.2	45.5	54.5
a_1	a_1	30	33.4	36.4	〃	〃	〃	〃
l_1	l_1	35	35	42	52	65	80	80
l_2	l_2	23	23	30	37	47	60	60
l_3	l_3	12	12	12	15	18	20	20
l_4	l_4	6	6	6	8	8	10	10
l_5	l_5	3	3	3	4	4	5	5

RFB 2081.84. / RFB 2081.94.

钢基铜合金高精度导套 **Steel with bronze backed high precision bearings**

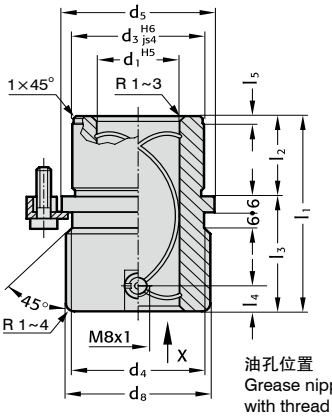
SHANGHAI RICH INTERNATIONAL



RFB 2081.84
RFB 2081.94
材料：S45C+合金铜
Material: S45C Steel+Bronze Alloy

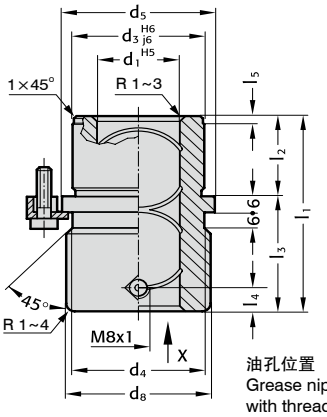
推荐座孔公差：H6级
Housing tollerance: H6

RFB 2081.84



油孔位置
Grease nipple
with thread
DIN 3405 -A M8 × 1

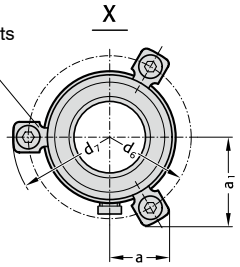
RFB 2081.94



油孔位置
Grease nipple
with thread
DIN 3405 -A M8 × 1

RFB 207.45

Order No. for replacement parts
Screw clamp
with cap screws
M6 × 20 similar
DIN 6912,
head Φ13,
(four clamps for size
Φd_1 = 38 mm and over)



RFB2081.84.	RFB2081.94.							
d_1	d_1	19 20	24 25	30 32	38 40	48 50	60 63	80
tol.		+0.012	+0.012	+0.015	+0.015	+0.015	+0.018	+0.018
tol.		+0.003	+0.003	+0.004	+0.004	+0.004	+0.005	+0.005
d_3	d_3	32	40	48	58	70	85	105
d_4	d_4	〃	〃	〃	〃	〃	〃	〃
d_5	d_5	40	48	56	66	80	95	118
d_6	d_6	52	60	67	77	91	106	129
d_7	d_7	64.7	72.7	79.7	89.7	103.7	118.7	141.7
d_8	d_8	39	46	53	63	77	92	115
a	a	20.7	22.65	24.4	35.3	40.2	45.5	54.5
a_1	a_1	30	33.4	36.4	〃	〃	〃	〃
l_1	l_1	43	59	75	82	97	116	120
l_2	l_2	23	23	30	37	47	60	60
l_3	l_3	20	36	45	45	50	56	60
l_4	l_4	10	10	10	10	10	10	10
l_5	l_5	3	3	4	4	5	5	5

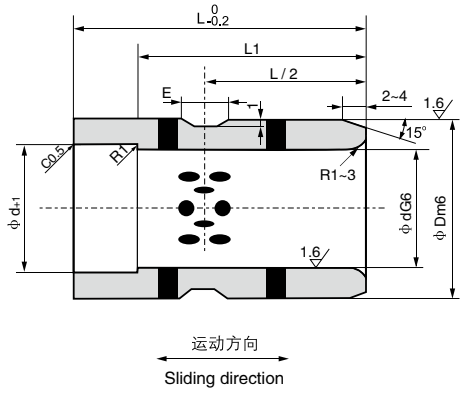
RJGB

塑胶模射出座导套 **Oilless Ejector Guide Bushing**

SRI SHANGHAI RICH INTERNATIONAL



材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#SP)



产品代号 Part No.	d	L	d G6		D m6		L1	E
RJGB-12×9	12	9	12	+0.017 +0.006	18	+0.018 +0.007	9	4
RJGB-12×14	〃	〃	〃	〃	〃	〃	14	〃
RJGB-12×19	〃	〃	〃	〃	〃	〃	19	〃
RJGB-12×24	〃	〃	〃	〃	〃	〃	24	〃
RJGB-16×14	16	14	16	〃	25	+0.021 +0.008	14	6
RJGB-16×19	〃	〃	〃	〃	〃	〃	19	〃
RJGB-16×24	〃	〃	〃	〃	〃	〃	24	〃
RJGB-16×29	〃	〃	〃	〃	〃	〃	29	〃
RJGB-16×34	〃	〃	〃	〃	〃	〃	34	〃
RJGB-16×39	〃	〃	〃	〃	〃	〃	35	〃
RJGB-20×14	20	14	20	+0.020 +0.007	30	〃	14	〃
RJGB-20×19	〃	〃	〃	〃	〃	〃	19	〃
RJGB-20×24	〃	〃	〃	〃	〃	〃	24	〃
RJGB-20×29	〃	〃	〃	〃	〃	〃	29	〃
RJGB-20×34	〃	〃	〃	〃	〃	〃	34	〃
RJGB-20×39	〃	〃	〃	〃	〃	〃	39	〃
RJGB-20×49	〃	〃	〃	〃	〃	〃	40	〃
RJGB-25×24	25	24	25	〃	35	+0.025 +0.009	24	〃
RJGB-25×29	〃	〃	〃	〃	〃	〃	29	〃
RJGB-25×34	〃	〃	〃	〃	〃	〃	34	〃
RJGB-25×39	〃	〃	〃	〃	〃	〃	39	〃
RJGB-25×49	〃	〃	〃	〃	〃	〃	49	〃
RJGB-25×59	〃	〃	〃	〃	〃	〃	50	〃
RJGB-30×29	30	29	30	〃	42	〃	29	〃
RJGB-30×34	〃	〃	〃	〃	〃	〃	34	〃
RJGB-30×39	〃	〃	〃	〃	〃	〃	39	〃
RJGB-30×49	〃	〃	〃	〃	〃	〃	49	〃
RJGB-30×59	〃	〃	〃	〃	〃	〃	59	〃
RJGB-30×69	〃	〃	〃	〃	〃	〃	60	〃
RJGB-30×79	〃	〃	〃	〃	〃	〃	〃	〃

产品代号 Part No.	d	L	d G6		D m6		L1	E
RJGB-35×29	35	29	35	+0.025 +0.009	48	+0.025 +0.009	29	8
RJGB-35×39	〃	34	〃	〃	〃	〃	34	〃
RJGB-35×39	〃	39	〃	〃	〃	〃	39	〃
RJGB-35×49	〃	49	〃	〃	〃	〃	49	〃
RJGB-35×59	〃	59	〃	〃	〃	〃	59	〃
RJGB-35×69	〃	69	〃	〃	〃	〃	69	〃
RJGB-35×79	〃	79	〃	〃	〃	〃	70	〃
RJGB-40×39	40	39	40	〃	55	+0.030 +0.011	39	10
RJGB-40×49	〃	49	〃	〃	〃	〃	49	〃
RJGB-40×59	〃	59	〃	〃	〃	〃	59	〃
RJGB-40×69	〃	69	〃	〃	〃	〃	69	〃
RJGB-40×79	〃	79	〃	〃	〃	〃	79	〃
RJGB-40×89	〃	89	〃	〃	〃	〃	80	〃
RJGB-50×49	50	49	50	〃	70	〃	49	〃
RJGB-50×59	〃	59	〃	〃	〃	〃	59	〃
RJGB-50×69	〃	69	〃	〃	〃	〃	69	〃
RJGB-50×79	〃	79	〃	〃	〃	〃	79	〃
RJGB-50×89	〃	89	〃	〃	〃	〃	89	〃
RJGB-50×99	〃	99	〃	〃	〃	〃	90	〃
RJGB-60×59	60	59	60	+0.029 +0.010	80	〃	59	〃
RJGB-60×69	〃	69	〃	〃	〃	〃	69	〃
RJGB-60×79	〃	79	〃	〃	〃	〃	79	〃
RJGB-60×89	〃	89	〃	〃	〃	〃	89	〃
RJGB-60×99	〃	99	〃	〃	〃	〃	90	〃
RJGB-60×109	〃	109	〃	〃	〃	〃	〃	〃
RJGB-80×69	80	69	80	〃	100	+0.035 +0.013	69	〃
RJGB-80×79	〃	79	〃	〃	〃	〃	79	〃
RJGB-80×89	〃	89	〃	〃	〃	〃	89	〃
RJGB-80×99	〃	99	〃	〃	〃	〃	99	〃
RJGB-80×109	〃	109	〃	〃	〃	〃	100	〃
RJGB-80×119	〃	119	〃	〃	〃	〃	〃	〃

How to order: Part No. d L
订单方式: RJGB 12 19

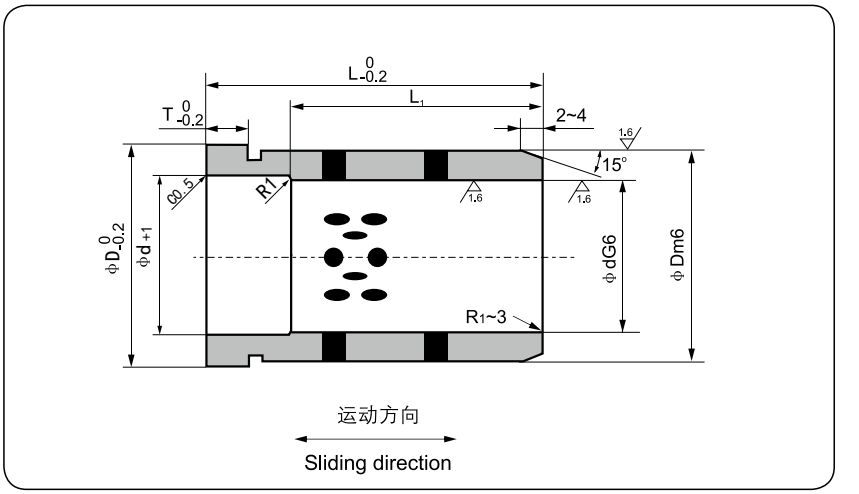
RJGBF

塑胶模自润滑导向套 **Oilless Ejector Guide Bushing**

SHANGHAI RICH INTERNATIONAL



材料：高力黄铜＋固体润滑剂
Material: CuZn25Al5Mn4Fe3
＋Graphite (500#SP)



产品代号 Part No.	d	L	d G6		D m6		D_1	T	L_1
RJGBF-12×19	12	19	12	+0.016 +0.006	18	+0.018 +0.007	25	4	19
RJGBF-12×24	〃	24	〃	〃	〃	〃	〃	〃	24
RJGBF-12×29	〃	29	〃	〃	〃	〃	〃	〃	29
RJGBF-12×34	〃	34	〃	〃	〃	〃	〃	〃	34
RJGBF-16×19	16	19	16	〃	25	+0.025 +0.009	30	6	19
RJGBF-16×24	〃	24	〃	〃	〃	〃	〃	〃	24
RJGBF-16×29	〃	29	〃	〃	〃	〃	〃	〃	29
RJGBF-16×34	〃	34	〃	〃	〃	〃	〃	〃	30
RJGBF-16×39	〃	39	〃	〃	〃	〃	〃	〃	〃
RJGBF-16×49	〃	49	〃	〃	〃	〃	〃	〃	〃
RJGBF-20×24	20	24	20	+0.020 +0.007	30	〃	35	8	24
RJGBF-20×29	〃	29	〃	〃	〃	〃	〃	〃	29
RJGBF-20×34	〃	34	〃	〃	〃	〃	〃	〃	34
RJGBF-20×39	〃	39	〃	〃	〃	〃	〃	〃	39
RJGBF-20×49	〃	49	〃	〃	〃	〃	〃	〃	40
RJGBF-20×59	〃	59	〃	〃	〃	〃	〃	〃	〃
RJGBF-25×24	25	24	25	〃	35	+0.025 +0.009	40	〃	24
RJGBF-25×29	〃	29	〃	〃	〃	〃	〃	〃	29
RJGBF-25×34	〃	34	〃	〃	〃	〃	〃	〃	34
RJGBF-25×39	〃	39	〃	〃	〃	〃	〃	〃	39
RJGBF-25×49	〃	49	〃	〃	〃	〃	〃	〃	49
RJGBF-25×59	〃	59	〃	〃	〃	〃	〃	〃	50
RJGBF-25×69	〃	69	〃	〃	〃	〃	〃	〃	〃
RJGBF-30×29	30	29	30	〃	42	〃	47	10	29
RJGBF-30×34	〃	34	〃	〃	〃	〃	〃	〃	34
RJGBF-30×39	〃	39	〃	〃	〃	〃	〃	〃	39
RJGBF-30×49	〃	49	〃	〃	〃	〃	〃	〃	49
RJGBF-30×59	〃	59	〃	〃	〃	〃	〃	〃	59
RJGBF-30×69	〃	69	〃	〃	〃	〃	〃	〃	60
RJGBF-30×79	〃	79	〃	〃	〃	〃	〃	〃	〃

产品代号 Part No.	d	L	d G6		D m6		D_1	T	L_1
RJGBF-35×39	35	39	35	+0.025 +0.009	48	+0.025 +0.009	54	10	39
RJGBF-35×49	〃	49	〃	〃	〃	〃	〃	〃	49
RJGBF-35×59	〃	59	〃	〃	〃	〃	〃	〃	59
RJGBF-35×69	〃	69	〃	〃	〃	〃	〃	〃	69
RJGBF-35×79	〃	79	〃	〃	〃	〃	〃	〃	70
RJGBF-35×89	〃	89	〃	〃	〃	〃	〃	〃	〃
RJGBF-35×99	〃	99	〃	〃	〃	〃	〃	〃	〃
RJGBF-40×39	40	39	40	〃	55	+0.030 +0.011	61	〃	39
RJGBF-40×49	〃	49	〃	〃	〃	〃	〃	〃	49
RJGBF-40×59	〃	59	〃	〃	〃	〃	〃	〃	59
RJGBF-40×69	〃	69	〃	〃	〃	〃	〃	〃	69
RJGBF-40×79	〃	79	〃	〃	〃	〃	〃	〃	79
RJGBF-40×89	〃	89	〃	〃	〃	〃	〃	〃	80
RJGBF-40×99	〃	99	〃	〃	〃	〃	〃	〃	〃
RJGBF-40×109	〃	109	〃	〃	〃	〃	〃	〃	〃
RJGBF-50×49	50	49	50	〃	70	〃	76	12	49
RJGBF-50×59	〃	59	〃	〃	〃	〃	〃	〃	59
RJGBF-50×69	〃	69	〃	〃	〃	〃	〃	〃	69
RJGBF-50×79	〃	79	〃	〃	〃	〃	〃	〃	79
RJGBF-50×89	〃	89	〃	〃	〃	〃	〃	〃	89
RJGBF-50×99	〃	99	〃	〃	〃	〃	〃	〃	90
RJGBF-50×109	〃	109	〃	〃	〃	〃	〃	〃	〃
RJGBF-50×119	〃	119	〃	〃	〃	〃	〃	〃	〃
RJGBF-60×99	60	99	60	+0.029 +0.010	80	〃	86	15	99
RJGBF-60×109	〃	109	〃	〃	〃	〃	〃	〃	109
RJGBF-60×119	〃	119	〃	〃	〃	〃	〃	〃	110
RJGBF-60×129	〃	129	〃	〃	〃	〃	〃	〃	〃
RJGBF-60×149	〃	149	〃	〃	〃	〃	〃	〃	〃

How to order: Part No. d L
订单方式: RJGBF 12 19

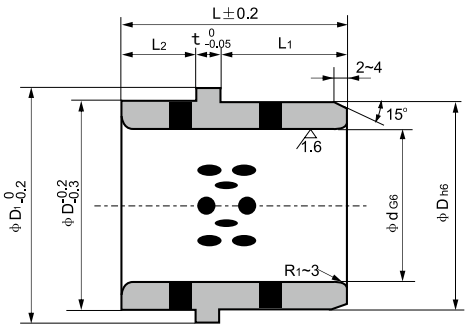
RJEGB / RJEGBK

塑胶模射出座导套 **Oilless Ejector Guide Bushing**

SHANGHAI RICH INTERNATIONAL



材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#SP)



运动方向
Sliding direction

产品代号 Part No.	d	L	d G6		D h6		D_1	L_1	L_2	t
RJEGB-16×26	16	26	16	+0.017 +0.006	25	0 -0.013	30	12	10	4
RJEGB-16×28	〃	28	〃	〃	〃	〃	〃	14	〃	〃
RJEGB-16×33	〃	33	〃	〃	〃	〃	〃	19	〃	〃
RJEGB-16×38	〃	38	〃	〃	〃	〃	〃	24	〃	〃
RJEGB-20×26	20	26	20	+0.020 +0.007	30	〃	35	12	〃	〃
RJEGB-20×28	〃	28	〃	〃	〃	〃	〃	14	〃	〃
RJEGB-20×33	〃	33	〃	〃	〃	〃	〃	19	〃	〃
RJEGB-20×38	〃	38	〃	〃	〃	〃	〃	24	〃	〃
RJEGB-25×26	25	26	25	〃	35	0 -0.016	40	12	〃	〃
RJEGB-25×28	〃	28	〃	〃	〃	〃	〃	14	〃	〃
RJEGB-25×33	〃	33	〃	〃	〃	〃	〃	19	〃	〃
RJEGB-25×38	〃	38	〃	〃	〃	〃	〃	24	〃	〃
RJEGB-30×33	30	33	〃	〃	〃	〃	45	14	15	〃
RJEGB-30×38	〃	38	35	+0.025 +0.009	46	〃	〃	19	〃	〃
RJEGB-30×46	〃	43	〃	〃	〃	〃	〃	24	〃	〃
RJEGB-35×38	35	38	〃	〃	〃	〃	50	19	〃	〃
RJEGB-35×43	〃	43	〃	〃	〃	〃	〃	24	〃	〃
RJEGB-35×48	〃	48	40	〃	52	0 -0.019	〃	29	〃	〃
RJEGB-40×48	40	48	〃	〃	〃	〃	57	24	20	〃
RJEGB-40×53	〃	53	〃	〃	〃	〃	〃	29	〃	〃
RJEGB-50×48	50	48	50	〃	62	〃	67	24	〃	〃
RJEGB-50×53	〃	53	〃	〃	〃	〃	〃	29	〃	〃

产品代号 Part No.	d	L	d G6		D h6		D_1	L_1	L_2	t
RJEGBK-25×33	25	33	25	+0.020 +0.006	35	0 -0.016	40	19	6	8
RJEGBK-25×38	〃	38	〃	〃	〃	〃	〃	24	〃	〃
RJEGBK-30×48	30	48	30	〃	40	〃	45	29	11	〃
RJEGBK-30×47	〃	47	〃	〃	42	〃	47	24	15	〃
RJEGBK-30×52	〃	52	〃	〃	〃	〃	〃	29	〃	〃
RJEGBK-35×63	35	63	35	+0.017 +0.006	45	〃	50	39	16	〃
RJEGBK-40×60	40	60	40	〃	50	〃	55	32	20	〃
RJEGBK-40×70	〃	70	〃	〃	〃	〃	〃	42	〃	〃
RJEGBK-40×78	〃	78	〃	〃	〃	〃	〃	49	21	〃
RJEGBK-40×57	〃	57	〃	〃	55	0 -0.019	60	24	25	〃
RJEGBK-40×67	〃	67	〃	〃	〃	〃	〃	29	30	〃
RJEGBK-45×88	45	88	45	〃	〃	〃	〃	59	21	〃
RJEGBK-45×95	〃	98	〃	〃	〃	〃	〃	69	〃	〃
RJEGBK-50×67	50	67	50	〃	62	〃	67	29	30	〃
RJEGBK-50×87	〃	87	〃	〃	〃	〃	〃	39	40	〃
RJEGBK-60×67	60	67	60	+0.017 +0.006	74	〃	82	29	30	〃
RJEGBK-60×87	〃	87	〃	〃	〃	〃	〃	39	40	〃

How to order: Part No. d L
订单方式: RJGGB 16 26

RGB 2087.70.

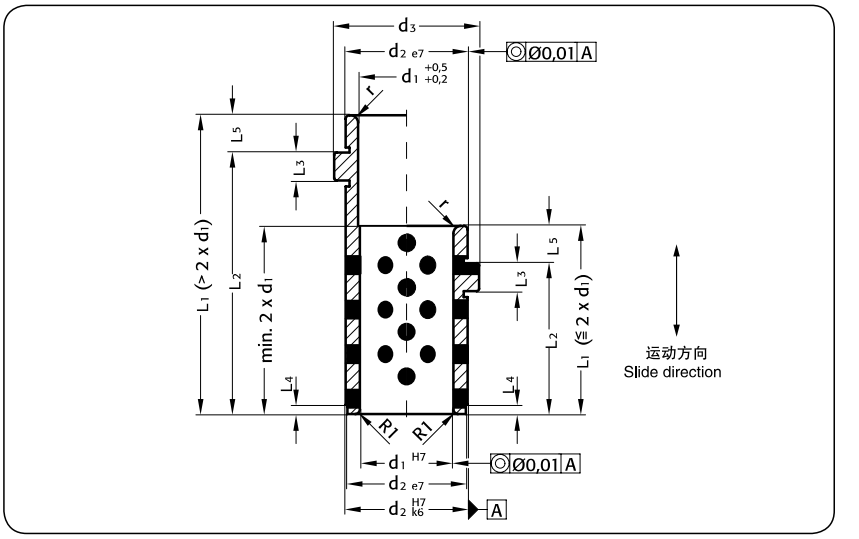
塑胶模偏法兰自润滑导套 **Oilless Guide Bushing with Collar**

SRI SHANGHAI RICH INTERNATIONAL



材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3 +Graphite (500#sp)

相配座孔推荐公差：H7级
Fit for receiving bore: H7



d1		9	10	14	15	18	20	22	24	30	32	40	42
d2		14	14	20	20	26	26	30	30	42	42	54	54
d3		16	16	25	25	31	31	35	35	47	47	60	60
L3		3	3	6	6	6	6	6	6	6	6	10	10
L4		1.5	1.5	2	2	2	2	3	3	4	4	5	5
L5		3	3	6	6	8	8	8	8	8	8	12	12
r		0.5	0.5	1	1	2	2	3	3	3	3	3	3
L1	L2												
15	12	●	●										
20	17	●	●										
23	17			●	●								
25	17					●	●	●	●				
25	22	●	●										
28	22			●	●								
30	22					●	●	●	●				
30	27	●	●										
33	27			●	●								
35	27					●	●	●	●	●	●		
39	36	●	●										
42	36			●	●								
44	36					●	●	●	●	●	●		
49	46	●	●										
52	46			●	●								
54	46					●	●	●	●	●	●		
58	46											●	●
59	56	●	●										
62	56			●	●								
64	56					●	●	●	●	●	●		
68	56											●	●
69	66	●	●										
72	66			●	●								
74	66					●	●	●	●	●	●		
78	66											●	●
82	76			●	●								
84	76					●	●	●	●	●	●		
88	76											●	●
92	86			●	●								
94	86					●	●	●	●	●	●		
98	86											●	●
104	96							●	●	●	●		
108	96											●	●
124	116							●	●	●	●		
128	116											●	●
144	136									●	●		
148	136											●	●
164	156												
168	156											●	●
208	196											●	●

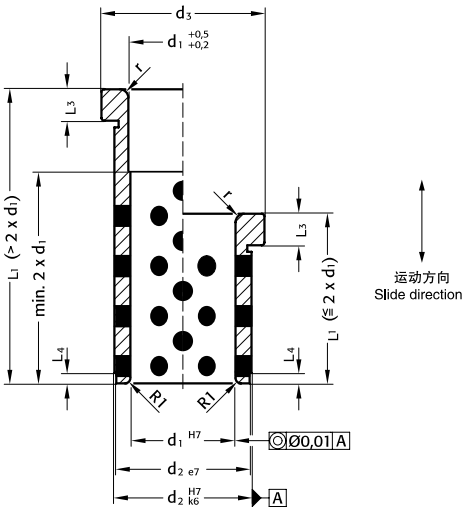
How to order: Part No. d1 L1
订单方式: RGB70 09 15

RGB 2087.72.

塑胶模边法兰自润滑导套 **Oilless Guide Bushing with Collar**

SHANGHAI RICH INTERNATIONAL





材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#sp)

推荐座孔公差：H7级
Housing tollerance: H7

d1	9/10	12	14/15	16	18/20	22/24	25	30/32	40/42	50	60
d2	14	18	20	22	26	30	32	42	54	66	80
d3	16	23	25	27	31	35	38	47	60	72	86
r	0.5	1	1	2	2	3	3	3	3	3	3
L3	3	6	6	6	6	6	6	6	10	10	20
L4	1.5	2	2	2	2	3	3	4	5	5	5
L1											
12	●										
17	●	●	●	●	●	●					
22	●	●	●	●	●	●					
27	●	●	●	●	●	●		●			
36	●	●	●	●	●	●		●			
46	●	●	●	●	●	●	●	●	●		
56	●	●	●	●	●	●	●	●	●		
66					●	●	●	●	●		
76					●	●	●	●	●	●	
86						●	●	●	●	●	
96						●		●	●	●	●
116								●	●	●	●
136									●	●	●
156									●	●	●
196										●	●

How to order: Part No. d1 L1
订单方式: RGB72 09 12



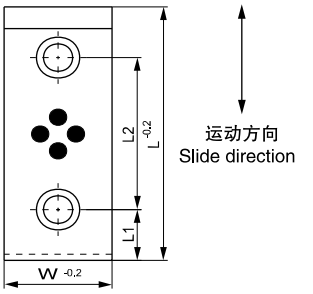
RPW
材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#sp)



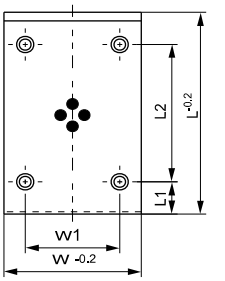
RPWS
材料:42CrMo4高频淬火
HRC: 58~60
Hardened Steel

螺孔尺寸 Countersunk bore hole	ϕd	ϕD	t
	H13		
M8×25	9	15	9
M12×25	13.5	20	13

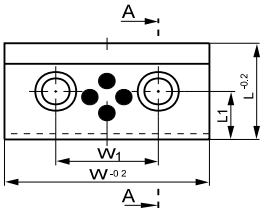
Shape/形状：A



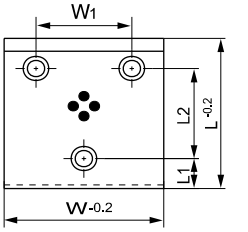
Shape/形状：D



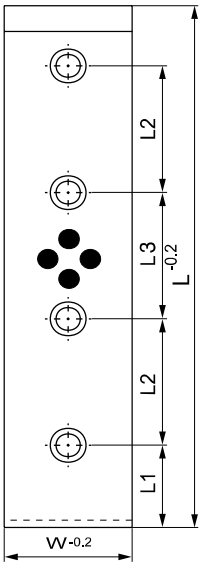
Shape/形状：B

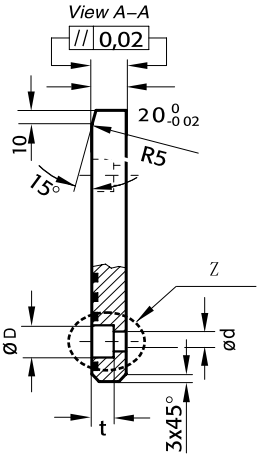


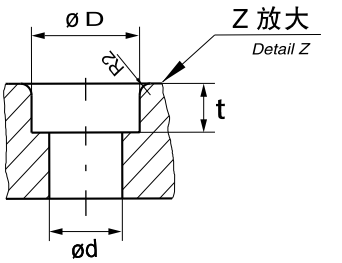
Shape/形状：C



Shape/形状：E







产品代号 Part No.	W - 0.2	L - 0.2	W1 ± 0.2	L1 ± 0.2	L2 ± 0.2	L3 ± 0.2	Shape 形状	Head Screw Choose	
								DIN 912 DIN ENISO 4762	螺孔数量 Q'ty
RPW - 50 × 80	50	80	-	25	30	-	A	M8 × 25	2
RPW - 50 × 100	50	100	-	〃	50	-	〃	M12 × 25	〃
RPW - 50 × 125	50	125	-	〃	75	-	〃	〃	〃
RPW - 50 × 160	50	160	-	〃	110	-	〃	〃	〃
RPW - 50 × 200	50	200	-	〃	150	-	〃	〃	〃
RPW - 50 × 250	50	250	-	〃	60	80	E	〃	4
RPW - 50 × 300	50	300	-	〃	80	90	〃	〃	〃
RPW - 50 × 350	50	350	-	〃	100	100	〃	〃	〃
RPW - 50 × 400	50	400	-	〃	120	110	〃	〃	〃
RPW - 50 × 450	50	450	-	〃	140	120	〃	〃	〃
RPW - 50 × 500	50	500	-	〃	150	150	〃	〃	〃
RPW - 80 × 50	80	50	30	25	-	-	B	M8 × 25	2
RPW - 80 × 80	80	80	-	〃	30	-	A	M12 × 25	〃
RPW - 80 × 100	80	100	-	〃	50	-	〃	〃	〃
RPW - 80 × 125	80	125	-	〃	75	-	〃	〃	〃
RPW - 80 × 160	80	160	-	〃	110	-	〃	〃	〃
RPW - 80 × 200	80	200	-	〃	150	-	〃	〃	〃
RPW - 80 × 250	80	250	-	40	170	-	〃	〃	〃
RPW - 80 × 315	80	315	-	〃	235	-	〃	〃	〃
RPW - 80 × 250	80	250	-	25	60	80	E	〃	4
RPW - 80 × 300	80	300	-	〃	80	90	〃	〃	〃
RPW - 80 × 350	80	350	-	〃	100	100	〃	〃	〃
RPW - 80 × 400	80	400	-	〃	120	110	〃	〃	〃
RPW - 80 × 450	80	450	-	〃	140	120	〃	〃	〃
RPW - 80 × 500	80	500	-	〃	150	150	〃	〃	〃
RPW - 100 × 50	100	50	50	25	-	-	B	M12 × 25	2
RPW - 100 × 80	100	80	〃	40	-	-	〃	〃	〃
RPW - 100 × 100	100	100	-	25	50	-	A	〃	〃
RPW - 100 × 125	100	125	-	〃	75	-	〃	〃	〃
RPW - 100 × 160	100	160	-	〃	110	-	〃	〃	〃
RPW - 100 × 200	100	200	-	〃	150	-	〃	〃	〃
RPW - 100 × 250	100	250	-	40	170	-	〃	〃	〃
RPW - 100 × 315	100	315	-	〃	235	-	〃	〃	〃
RPW - 100 × 450	100	450	-	25	140	120	E	〃	4
RPW - 100 × 500	100	500	-	〃	150	150	〃	〃	〃
RPW - 125 × 50	125	50	75	25	-	-	B	M12 × 25	2
RPW - 125 × 80	125	80	〃	40	-	-	〃	〃	〃
RPW - 125 × 100	125	100	〃	25	50	-	C	〃	3
RPW - 125 × 125	125	125	〃	〃	75	-	〃	〃	〃
RPW - 125 × 160	125	160	〃	〃	110	-	〃	〃	〃
RPW - 125 × 200	125	200	〃	〃	150	-	〃	〃	〃
RPW - 125 × 250	125	250	〃	40	170	-	〃	〃	〃
RPW - 125 × 315	125	315	〃	〃	235	-	〃	〃	〃
RPW - 125 × 450	125	450		25	140	120	E	〃	4
RPW - 125 × 500	125	500		〃	150	150	〃	〃	〃
RPW - 160 × 50	160	50	110	25	-	-	B	M12 × 25	2
RPW - 160 × 80	160	80	〃	40	-	-	〃	〃	〃
RPW - 160 × 100	160	100	〃	25	50	-	C	〃	3
RPW - 160 × 125	160	125	〃	〃	75	-	〃	〃	〃
RPW - 160 × 160	160	160	〃	〃	110	-	〃	〃	〃
RPW - 160 × 200	160	200	〃	〃	150	-	〃	〃	〃
RPW - 160 × 250	160	250	〃	40	170	-	D	〃	4
RPW - 160 × 315	160	315	〃	〃	235	-	〃	〃	〃

How to order: Part No. W L
订单方式: RPW 50 80

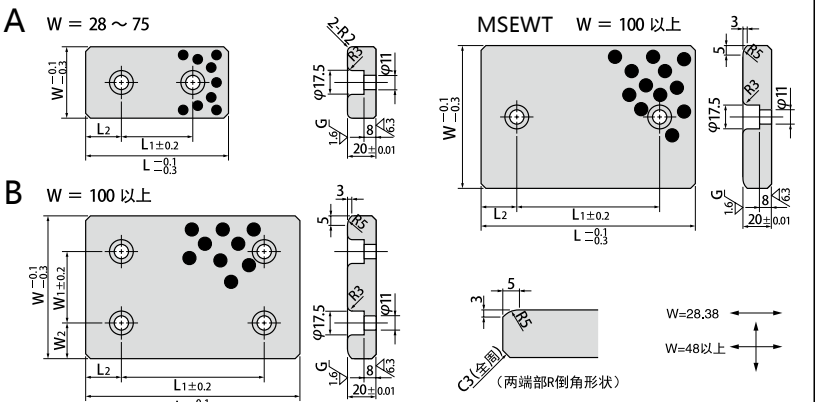
RSEW

20mm 日系汽车模具自润滑导板　Oilless Wear Plate

SRI SHANGHAI RICH INTERNATIONAL



材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#sp)



产品代号 Part No.	W	L	W_1	L_1	L_2	Catalog No.	
RSEW - 2875	28	75	-	45	15	A	RSEW
RSEW - 28100	〃	100	-	50	25		
RSEW - 28150	〃	150	-	100	〃		
RSEW - 3875	38	75	-	45	15		
RSEW - 38100	〃	100	-	50	25		
RSEW - 38150	〃	150	-	100	〃		
RSEW - 4875	48	75	-	45	15		
RSEW - 48100	〃	100	-	50	25		
RSEW - 48125	〃	125	-	75	〃		
RSEW - 48150	〃	150	-	100	〃		
RSEW - 48200	〃	200	-	150	〃		
RSEW - 5875	58	75	-	45	15		
RSEW - 58100	〃	100	-	50	25		
RSEW - 58150	〃	150	-	100	〃		
RSEW - 7575	75	75	-	25	〃		
RSEW - 75100	〃	100	-	50	〃		
RSEW - 75125	〃	125	-	75	〃		
RSEW - 75150	〃	150	-	100	〃		
RSEW - 75200	〃	200	-	150	〃		
RSEW - 100100	100	100	50	50	〃	B	RSEW RSEWT
RSEW - 100125	〃	125	50	75	〃		
RSEW - 100150	〃	150	50	100	〃		
RSEW - 100200	〃	200	50	150	〃		
RSEW - 100250	〃	250	50	200	〃		
RSEW - 100300	〃	300	50	〃	50		
RSEW - 125125	125	125	50	75	25		
RSEW - 125150	〃	150	50	100	〃		
RSEW - 125200	〃	200	50	150	〃		
RSEW - 125250	〃	250	50	200	〃		
RSEW - 125300	〃	300	50	〃	50		
RSEW - 125350	〃	350	50	〃	75		
RSEW - 150150	150	150	100	100	25		
RSEW - 150200	〃	200	100	150	〃		
RSEW - 150250	〃	250	100	200	〃		

How to order: Part No. W L
订单方式: RSEW 28 75

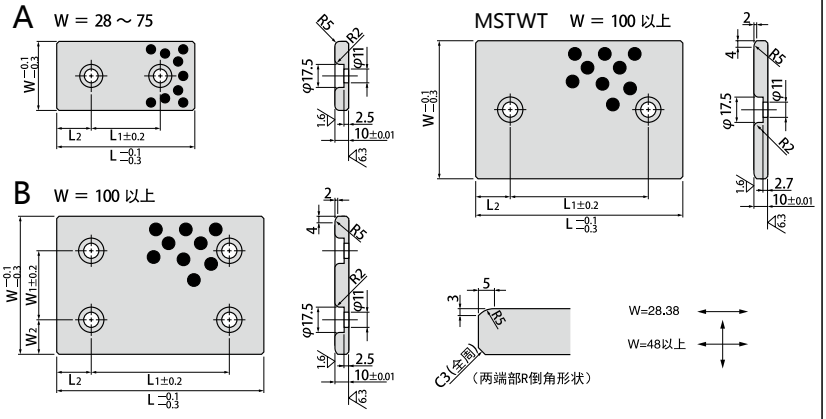
RSTW

10mm 日系汽车模具自润滑导板　Oilless Wear Plate

SHANGHAI RICH INTERNATIONAL



材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#sp)



产品代号 Part No.	W ± 0.2	L ± 0.2	W_1 ± 0.2	L_1 ± 0.2	L_2 ± 0.2	Catalog No.	
RSEW - 2875	28	75	-	45	15	A	RSEW
RSEW - 28100	〃	100	-	50	25		
RSEW - 28125	〃	125	-	75	〃		
RSEW - 28150	〃	150	-	100	〃		
RSEW - 3875	38	75	-	45	15		
RSEW - 38120	〃	100	-	50	25		
RSEW - 38125	〃	125	-	75	〃		
RSEW - 38150	〃	150	-	100	〃		
RSEW - 4875	48	75	-	45	15		
RSEW - 48100	〃	100	-	50	25		
RSEW - 48125	〃	125	-	75	〃		
RSEW - 48150	〃	150	-	100	〃		
RSEW - 48200	〃	200	-	150	15		
RSEW - 5875	58	75	-	45	25		
RSEW - 58100	〃	100	-	50	〃		
RSEW - 58150	〃	150	-	100	〃		
RSEW - 7575	75	75	-	25	〃		
RSEW - 75100	〃	100	-	50	〃		
RSEW - 75120	〃	125	-	75	〃		
RSEW - 75150	〃	150	-	100	〃		
RSEW - 75200	〃	200	-	150	〃		
RSEW - 100100	100	100	50	50	〃	B	RSEW RSEWT
RSEW - 100125	〃	125	50	75	〃		
RSEW - 1008150	〃	150	50	100	〃		
RSEW - 100200	〃	200	50	150	〃		
RSEW - 1002500	〃	250	50	200	〃		
RSEW - 125150	125	150	50	100	〃		
RSEW - 125200	〃	200	50	150	〃		
RSEW - 125250	〃	250	50	200	〃		
RSEW - 1258150	150	150	100	100	〃		
RSEW - 1258200	〃	200	100	150	〃		

How to order: Part No. W L
订单方式: RSEW 28 75

RCPRP、RCPRPL、RCPRPR

20mm 日系汽车模具自润滑导板　Oilless Wear Plate

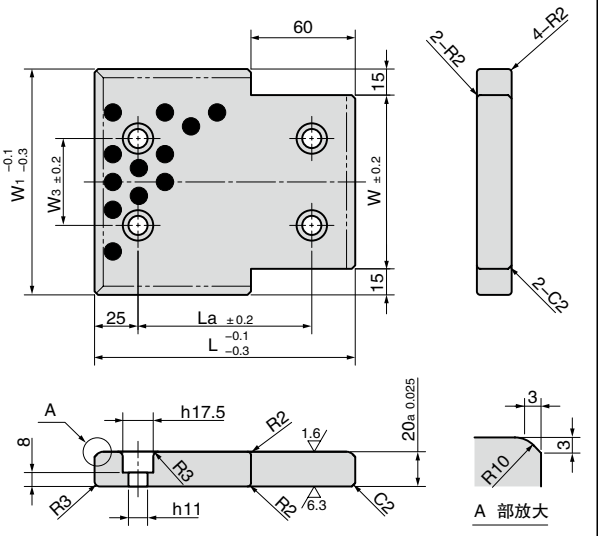
SRI SHANGHAI RICH INTERNATIONAL



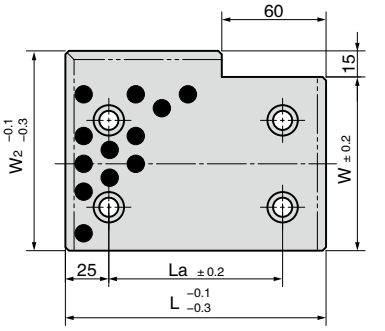
RCPRP
RCPRPL
RCPRPR

材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#sp)

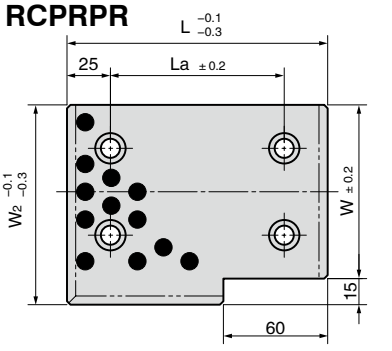
RCPRP



RCPRPL



RCPRPR



材料 Material	产品代号 Part No.	W	L	W1	W2	W3	La
RCPRP RCPRPL RCPRPR	75 × 100	75	100	105	90	40	50
	75 × 125	〃	125	105	〃	〃	75
	75 × 150	〃	150	105	〃	〃	100
	100 × 125	100	125	130	115	50	75
	100 × 150	〃	150	130	〃	〃	100
	125 × 150	125	〃	155	140	75	〃
	125 × 200	〃	200	155	〃	〃	150
	125 × 250	〃	250	155	〃	〃	200
	150 × 200	150	200	180	165	100	150
	150 × 250	〃	250	180	〃	〃	200

How to order: Part No. W L
订单方式: RCPRP 75 100

RS30W/RS30WF

汽车冲压模具凸轮行程滑板 **Oilless Cam Stroke Plate**

SRI SHANGHAI RICH INTERNATIONAL



RS30W

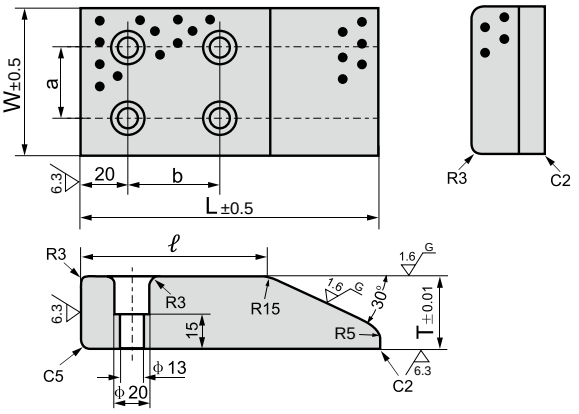
材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite (500#sp)



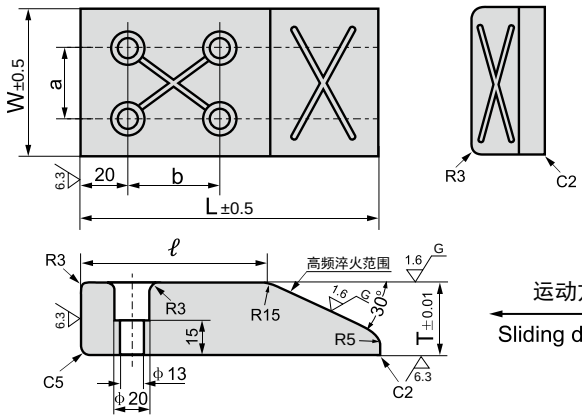
RS30WF

材料：钢基 HRC≥55
Material: S45C

RS30W



RS30WF



产品代号 Part No.		W	L	T	ℓ	a	b	Catalong No.
RS30W - 75130	RS30WF - 75130	75	130	30	95	40	50	RS30W 铜合金型 RS30WF S45C型
RS30W - 75150	RS30WF - 75150	〃	150	45	90	〃	45	
RS30W - 75170	RS30WF - 75170	〃	170	60	〃	〃	〃	
RS30W - 75200	RS30WF - 75200	〃	200	60	120	〃	75	
RS30W - 100130	RS30WF - 100130	100	130	30	95	60	50	
RS30W - 100150	RS30WF - 100150	〃	150	45	90	〃	45	
RS30W - 100170	RS30WF - 100170	〃	170	60	〃	〃	〃	
RS30W - 100200	RS30WF - 100200	〃	200	60	120	〃	75	
RS30W - 125130	RS30WF - 125130	125	130	30	95	85	50	
RS30W - 125150	RS30WF - 125150	〃	150	45	90	〃	45	
RS30W - 125170	RS30WF - 125170	〃	170	60	〃	〃	〃	
RS30W - 125200	RS30WF - 125200	〃	200	60	120	〃	75	
RS30W - 150130	RS30WF - 150130	150	130	30	95	110	50	
RS30W - 150150	RS30WF - 150150	〃	150	45	90	〃	45	
RS30W - 150170	RS30WF - 150170	〃	170	60	〃	〃	〃	
RS30W - 150200	RS30WF - 150200	〃	200	60	120	〃	75	

How to order: Part No. W L
订单方式: RS30W 75 130

RS15W/RS15WF

汽车冲压模具凸轮行程滑板 **Oilless Cam Stroke Plate**

SHANGHAI RICH INTERNATIONAL



RS30W

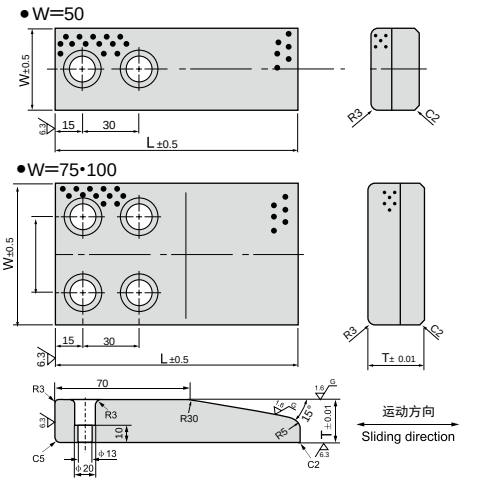
材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite(500#sp)



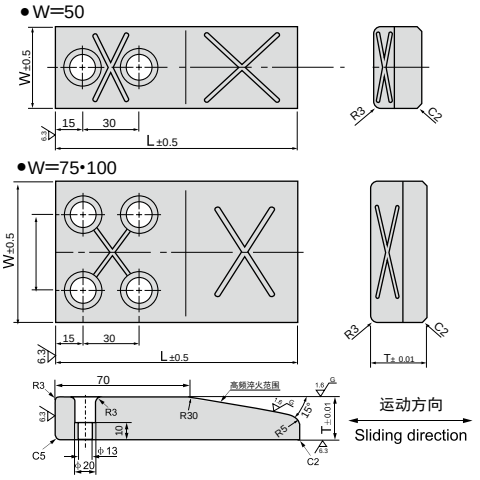
RS30WF

材料：钢基 HRC≥55
Material: S45C

RS15W



RS15WF



产品代号 Part No.		W	L	T	a	Catalong No.
RS15W - 50110	RS15WF - 50110	50	110	25	-	RS15W 铜合金型 RS15WF S45C型
RS15W - 50130	RS15WF - 50130	〃	130	30	-	
RS15W - 50150	RS15WF - 50150	〃	150	35	-	
RS15W - 75110	RS15WF - 75110	75	110	25	40	
RS15W - 75130	RS15WF - 75130	〃	130	30	〃	
RS15W - 75150	RS15WF - 75150	〃	150	35	〃	
RS15W - 100110	RS15WF - 100110	100	110	25	60	
RS15W - 100130	RS15WF - 100130	〃	130	V30	〃	
RS15W - 100150	RS15WF - 100150	〃	150	35	〃	

How to order: Part No. W L
订单方式: RS15W 50 110

RCBG/RCBP

汽车冲压模具凸轮底部导板 **Oilless Cam Bottom Guide Plate**

SHANGHAI RICH INTERNATIONAL



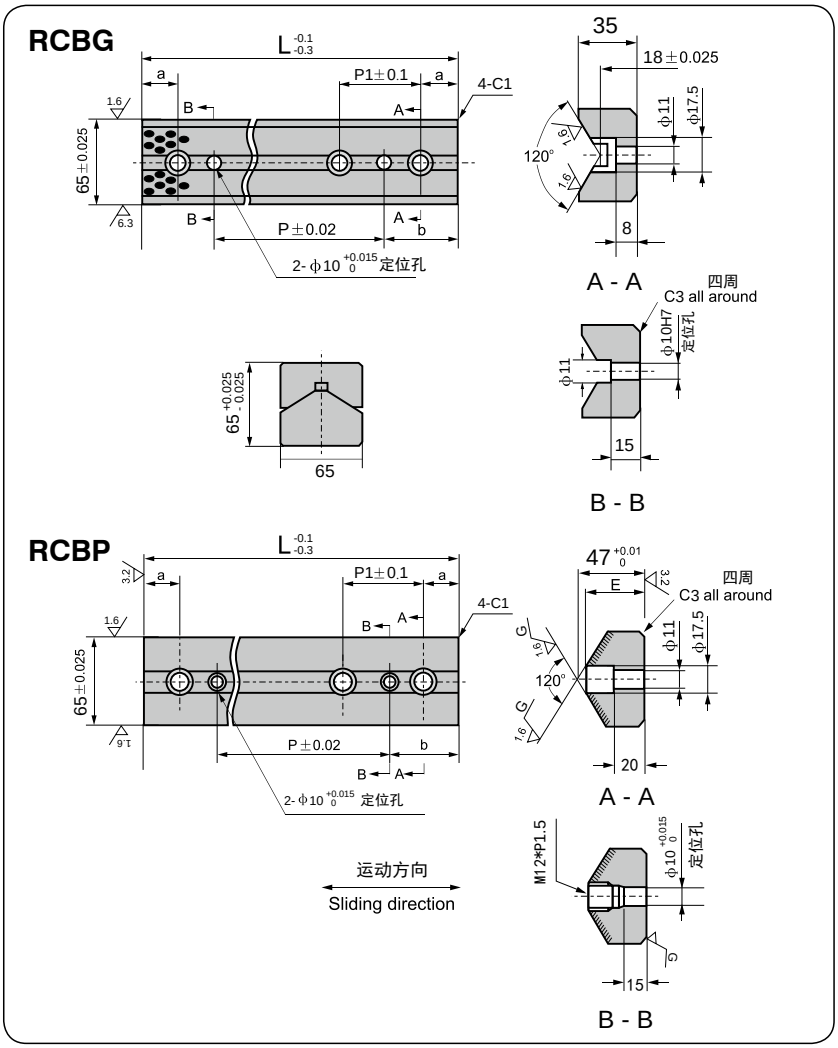
RCBG

材料：高力黄铜+固体润滑剂
Material: CuZn25Al5Mn4Fe3
+Graphite(500#sp)



RCBP

材料：钢基 HRC≥55
Material: S45C



产品代号 Part No.	L	a	b	P	P1	No. of Bolt Holes 螺栓数量
RCBG - 100 × 65	100	20	40	20	60	2
RCBG - 150 × 65	150	25	50	50	50	3
RCBG - 200 × 65	200	〃	〃	100	〃	4
RCBG - 250 × 65	250	〃	〃	150	〃	5
RCBG - 300 × 65	300	〃	〃	200	〃	6

产品代号 Part No.	L	a	b	P	P1	No. of Bolt Holes 螺栓数量
RCBP - 100 × 65	100	20	40	20	60	2
RCBP - 150 × 65	150	25	50	50	50	3
RCBP - 200 × 65	200	〃	〃	100	〃	4
RCBP - 250 × 65	250	〃	〃	150	〃	5
RCBP - 300 × 65	300	〃	〃	200	〃	6

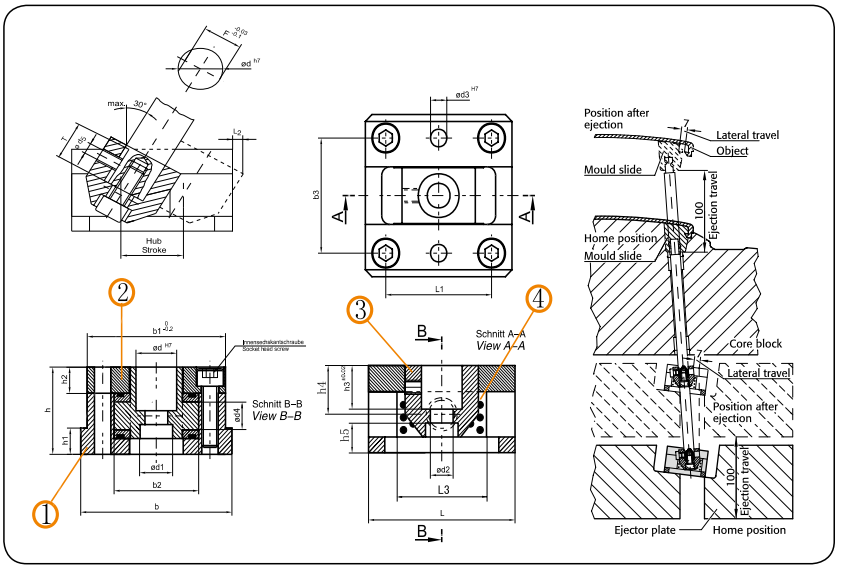
How to order: Part No.
订单方式: RCBG 100 × 65

ROIBG

自润滑倾斜顶出件 **Oilless Inclined Bolt Guide**

SRI SHANGHAI RICH INTERNATIONAL





产品代号 Part No.	b	L	h	b1	b2	b3	L1	L2	L3	h1	h2	h3	h4
ROIBG–8	33	32	22	30	19	24	20	3.6	20	5	7	8	12.5
ROIBG–10	45	45	27	40	25	32	30	4.5	25	〃	8	10	15.5
ROIBG–12	57	50	32	51	31	39	35	5	30	7	10	12	18
ROIBG–16	65	65	36	58	38	46	40	〃	40	8	〃	16	20
ROIBG–20	80	80	42	72	44	56	55	〃	50	11	12	20	23
ROIBG–25	93	90	50	85	52	66	65	6	55	15	15	25	28
ROIBG–30	101	100	55	93	60	74	70	7	60	〃	〃	30	30
ROIBG–35	120	120	62	110	70	85	80	8	75	〃	18	35	35
ROIBG–40	130	135	70	120	80	95	90	〃	85	〃	〃	40	40
ROIBG–45	140	150	80	130	90	105	110	10	95	〃	20	45	45

产品代号 Part No.	h5	d	d1	d2	d3	d4	d5	F	T	Stroke	相配螺栓 Socket head screw
ROIBG–8	10	8	8	4.5	3	7	M4	7	8	10	M3
ROIBG–10	12.5	10	10	5.5	4		M5	9	9	18	M4
ROIBG–12	15	12	11	7	6	10	M6	11	10	20	M6
ROIBG–16	〃	16	14	9	〃	12	M8	14.5	12	25	〃
ROIBG–20	16	20	17	11	8	14	〃	18	16	30	M8
ROIBG–25	17	25	20	14	10	16	M10	22.5	20	35	M10
ROIBG–30	〃	30	〃	〃	〃	18	〃	27	25	40	〃
ROIBG–35	18	35	26	〃	〃	20	〃	32	30	45	M12
ROIBG–40	19	40	〃	17.5	〃	25	M12	36	35	50	〃
ROIBG–45	24	45	〃	〃	〃	30	〃	40	40	55	〃

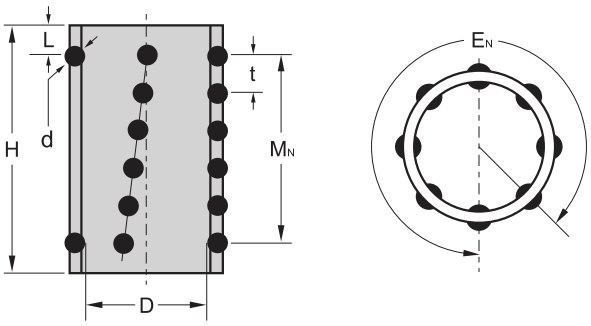
How to order: Part No. d
订单方式: ROIBG 8

RFZ

钢球保持架 **Ball Retainers**

SHANGHAI RICH INTERNATIONAL



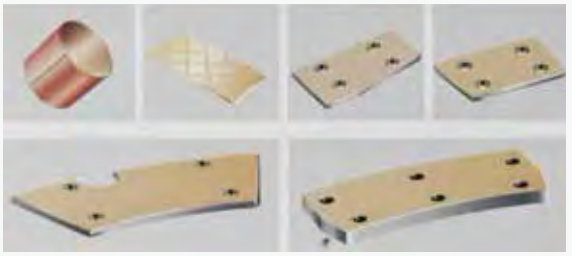


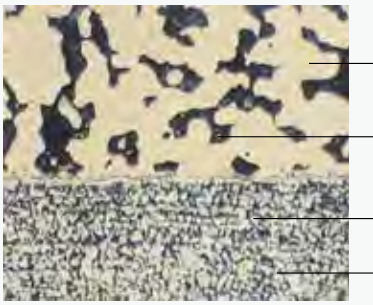
铜合金保持架	RFZH
铝合金保持架	RFZL
POM树脂保持架	RFZP

产品代号 Part No.	D	H	d	E_N	M_N	球 BALLS	t	L
RFZ(*)1950	19	50	3	12	8	96	5.5	5.75
RFZ(*)1960	〃	60	〃	〃	10	120	〃	5.25
RFZ(*)2050	20	50	〃	〃	8	96	〃	5.75
RFZ(*)2060	〃	60	〃	〃	10	120	〃	5.25
RFZ(*)2250	22	50	〃	14	8	112	〃	5.75
RFZ(*)2260	〃	60	〃	〃	10	140	〃	5.25
RFZ(*)2360	23	60	〃	〃	10	208	〃	5.25
RFZ(*)2475	24	75	〃	16	13	128	〃	4.50
RFZ(*)2550	25	50	〃	〃	8	112	〃	5.75
RFZ(*)2560	〃	60	〃	〃	10	160	〃	5.25
RFZ(*)2575	〃	75	〃	〃	13	208	〃	4.50
RFZ(*)2775	27	75	〃	〃	13	208	〃	4.50
RFZ(*)2860	28	60	4	14	8	112	6.5	7.25
RFZ(*)2875	〃	75	〃	〃	11	154	〃	5.00
RFZ(*)3060	30	60	〃	〃	8	112	〃	7.25
RFZ(*)3075	〃	75	〃	〃	11	154	〃	5.00
RFZ(*)3260	32	60	〃	16	8	128	〃	7.25
RFZ(*)3275	〃	75	〃	〃	11	192	〃	5.00
RFZ(*)3390	〃	90	〃	〃	13	208	〃	6.00
RFZ(*)3685	36	85	〃	〃	12	192	〃	6.75
RFZ(*)3690	〃	90	5	〃	13	208	8.0	6.00
RFZ(*)3870	38	70	〃	〃	8	128	〃	7.00
RFZ(*)3890	〃	90	〃	〃	11	176	〃	5.00
RFZ(*)4090	40	90	〃	〃	11	176	〃	5.00
RFZ(*)4590	45	90	〃	18	11	198	〃	5.00
RFZ(*)45110	〃	110	〃	〃	13	234	〃	7.00
RFZ(*)5090	50	90	〃	20	11	220	〃	5.00
RFZ(*)50110	〃	110	〃	〃	13	260	〃	7.00
RFZ(*)6090	60	90	〃	22	11	242	〃	5.00
RFZ(*)60110	〃	110	〃	〃	13	286	〃	7.00
RFZ(*)80130	80	130	〃	28	15	420	〃	9.00

How to order: Part No. D H
订单方式: RFZ 19 50

材料组织 Mater Structure







SRI #2000S 由作为滑动耐磨材料的烧结层和作为轴承载荷支撑的金属基体组成的双合金自润滑轴承材料；烧结层由特殊的铜合金材料均匀分布在石墨和PTFE固体轮滑剂组成，在发生围观移动时就可以容易的形成一层牢固的固体转移膜，这层膜具有很低的摩擦系数和较低的剪切强度，即使在重载荷条件下任能覆着在对偶件表面；金属基板则提供了很好的机械强度和尺寸稳定性，根据使用工况可以选择碳钢、铜基等材料或者可以进行表面镀层提高腐蚀性能。



SRI #2000S is composite multi-layer bearing composed lf sintered material used as sliding surfaces and metal shell as backing, the sintered layers are of a special copper alloy which is uniformly sidpersed with PTFE and graphite solid lubricant. This bearing material have lower initial coefficient of friction and easily form a firmly adhesive solid lubricant film as micro-range movement occurs, this film have low shear strength and remains within the contact area even under heavy loads, while the metal backing provides a high mechanical strength and dimensional stability.

SRI #2000S

钢基铜合金弥散固体润滑轴承 Metal backed bronze powder with solid lubricants

SHANGHAI RICH INTERNATIONAL

材料特点 Material properties

※可以长期使用而无需维护；
※设计用于很高的静承载和动承载；
※具有很低的平稳摩擦系数，无粘着现象；
※具有耐粉尘、耐腐蚀‘耐冲击和耐边缘负载能力；
※材料具有良好的导电和导热性能；
※能够在很宽的温度范围内使用；
※适合于往复、旋转和摆动等启动频繁又难以形成油膜的场合；
※具有极低的磨损率，使用寿命长；
※安装后可以进行再次加工以获得更高的公差；
※可以在真空下使用。

※Allows maintenace-free and longlife operation
※Suitable for high static and dynamic loads
※With low and smoothly coefficient of friction and without stick-slip effects
※Suitable for dirt, corrosion, impact load and edge loading
※Suitable for micro-range movements
※The base material provided a good shock-absorbing capacity
※Can be used over a large temperature range
※Suitable for reciprocating, rotating and oscillating movement with start frequency and difficulty to form oil film occasions
※With low wear rate and long life service
※Can be applied in radioactive environments

技术参数 Tech. Data

材料名称 SRI Standard materia		SRI #2000S1	SRI #2000S2	SRI #2000S3	SRI #2000S4
金属基材 Backing metal		碳钢 Steel	碳钢 Steel	不锈钢 Stainless steel	青铜 Bronze
耐磨层 Lining layer	成份 Composition	CuSn12+SL	CuSn10Pb10+SL	CuSn12+SL	CuSn12+SL
	固体润滑剂 Solidlubricants	6%	6%	6%	6%
	硬度 Hardness	>40HB	>40HB	>40HB	>40HB
	压缩变形 150 Mpa compression deformation	<0.005mm	<0.005mm	<0.005mm	<0.005mm
最大承载 Max. load	静承载 Static	150N/mm^2	120N/mm^2	150N/mm^2	150N/mm^2
	动承载 Dynamic	100N/mm^2	80N/mm^2	100N/mm^2	100N/mm^2
最大线速度 Max. speed		0.5m/s	0.5m/s	0.5m/s	0.5m/s
最大PV值 Max. PV N/mm^2*m/s		1.5	1.5	1.5	1.5
摩擦因素 Coefficient of friction μ		0.05~0.2	0.03~0.2	0.05~0.2	0.05~0.2
使用温度 Temp. ℃		-195~+280	-195~+280	-195~+280	-195~+280

SRI #2000S

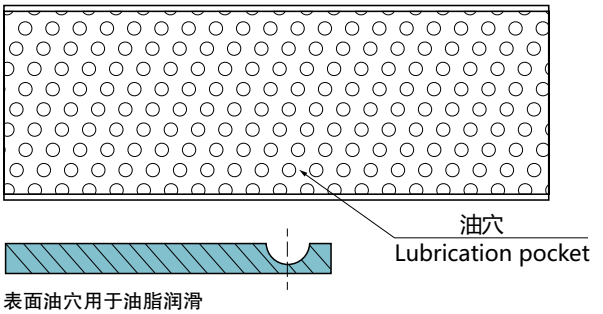
钢基铜合金弥散固体润滑轴承 Metal backed bronze powder with solid lubricants

SHANGHAI RICH INTERNATIONAL

耐磨层表面 Bearing Surface

标准的SRI #2000S材料表面为光板形式，同时也可以根据客户需求加工油槽用于在轴承运行过程重产生的磨粒、外部环境侵入的异物或杂质等的有效排泄，另外也可以根据需要加工出有规则的储油穴。在特殊工况下为了降低起始摩擦系数，在耐磨层表面可以喷涂低摩擦材料比如PTFE或者二氧化钼等。

The standard bearings we supply are usually with plain surface, also we can supply the products with cleaning grooves for small angular movements or in the presence of abrasive media or dirt, and indented surface ofr grease luvricated applications.

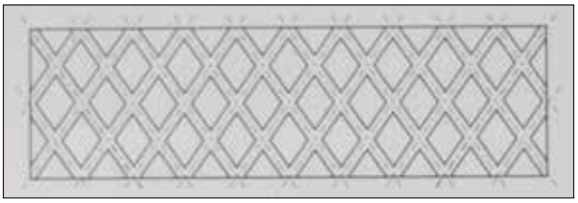


表面油穴用于油脂润滑
Indented surface for grease lubricated applications

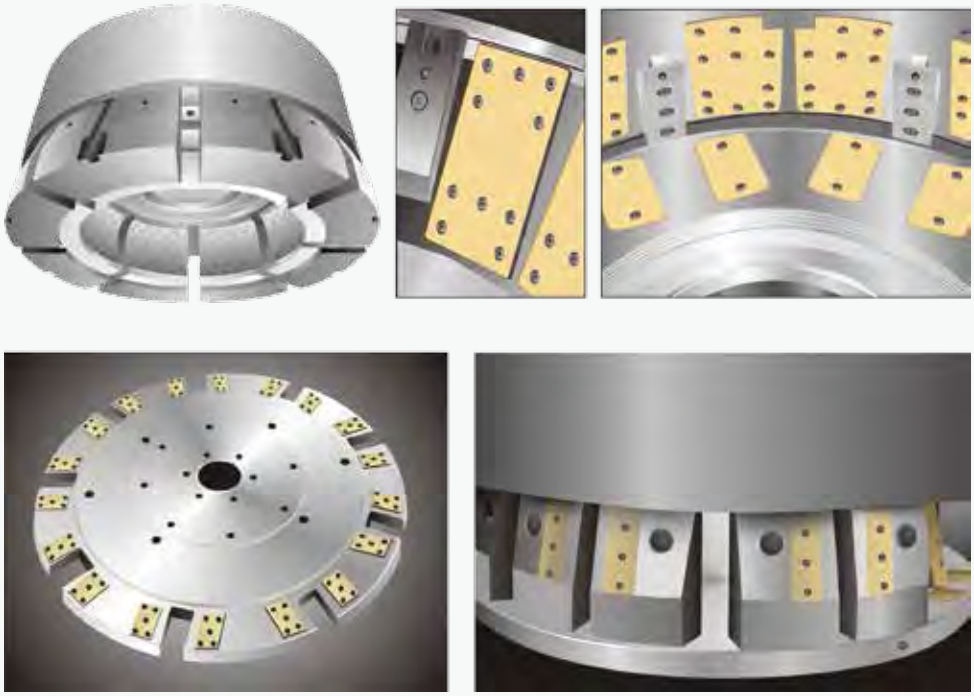
典型应用 Typical Applications

SRI #2000S材料所具有的特性可以满足很多无法加油或者不能润滑的场合，比如水轮机、导叶坝工作门事故门、射出成型机、包装机械、轮胎模具、工业炉、真空设备、造纸设备、有辐射的工作场合等。

SRI #2000S has been widely used in water turbines, vane controls, injection moulding machinery, packing machines, construction equipment, tire moulds, paper production machinery, furnace expansion plates, automotive transmission, heavy lifting chain linkage, food production equipment etc.

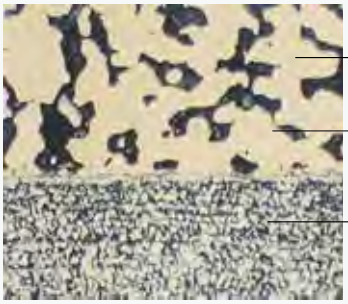


排泄槽用于在粉尘或有颗粒的条件下使用
Cleaning grooves for small angular movements or the presence of abrasive media or dirt.



材料组织 Material Strcture





以优质金属材料为基体表面烧结含有固体润滑剂的铁镍合金作为工作层，并经含油处理；固体润滑剂主要为石墨，由于固体润滑剂均匀的分散在合金层内因此在滑动开始时就能形成固体润滑膜，这层膜具有低剪切强度，即使在很大的静载荷条件下仍可牢靠附着在轴承表面而不易破裂，因此围观移动下不会出现爬行现象；而金属基体则提供了很高的机械强度和尺寸稳定性。

SRI #2000 is composite multi-layer bearing composed of a special sintered material which forms the sliding surface and steel material forms the backing. Sintered layers are of a special ferrous-nickel alloy containing uniformly dispersed solid lubricant, the main component of which is graphite. The solid lubricant will be released at the bearing surface and easily form a firmly adhesive solid lubricant film sa wear occurs, In additional, the sintered layers have been processed by oil impregnation treatment this ensures lower dynamic coefficient of friction as well as static which obtains smoothly sliding property. While the steel backing provides a high mechanical strength and dimensional stability.

材料特点 Material properties

※可以长期使用而无需维护；
※具有相同的静摩擦系数和动摩擦系数;
※设计用于很高的静承载和动承载；
※具有很低的平稳摩擦系数，无粘着现象；
※具有耐粉尘、耐腐蚀‘耐冲击和耐边缘负载能力；
※材料具有良好的导电和导热性能；
※能够在很宽的温度范围内使用；
※适合于往复、旋转和摆动等启动频繁又难以形成油膜的场合；
※具有极低的磨损率，使用寿命长；

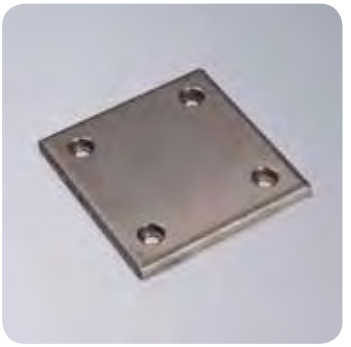
※Allows maintenace-free and longlife operation;
※Suitable for high static and dynamic loads;
※With low and smoothly coefficient of friction and without stick-slip effects;
※Suitable for dirt, corrosion, impact load and edge loading;
※Suitable for micro-range movements;
※Has good conductivity and thermal conductivity properties;
※Can be used over a large temperature range;
※Suitable for reciprocating, rotating and oscillating movement with start frequency and difficulty to form oil film occasions;
※With low wear rate and long life service.

技术参数 **Tech. Data**				
最大承载 Max. load	静承载 Static	100N/mm^2	使用温度 Temp.	-40℃～+120℃
	动承载 Dynamic	50N/mm^2	摩擦因素 Coefficient of friction	0.03～0.20
最大线速度 Max. speed	干摩擦 Dry	0.5m/s	合金层硬度 Alloy hardness	>45HB
	润滑 Lubrication	>1m/s	线涨系数 Coefficient of thermal expansion	14*10^{-6}*K^{1}
最大PV值 Max. PV	干摩擦 Dry	1.5N/mm^2*m/s		
	润滑 Lubrication	2.5N/mm^2*m/s	含油率 Oil volume	>10%

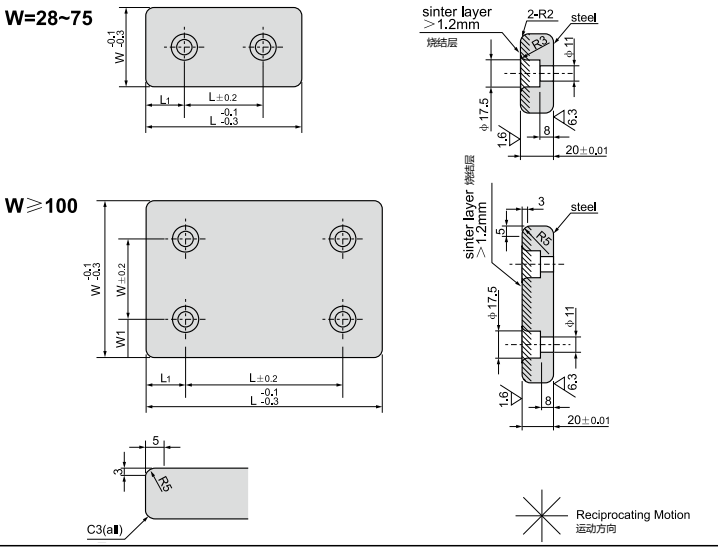
SRI #2000

自润滑板　**RSOX 20mm Wear Plate**

SHANGHAI RICH INTERNATIONAL



材料：低碳钢＋铁镍合金
＋固体润滑剂
Material: Steel＋Fe-Ni
alloy＋Graphite



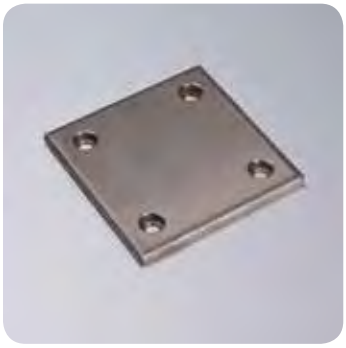
产品代号 Part No.	W	L	W_1	W_2	L_1	L_2
RSOX - 28 × 75	28	75	-	-	45	15
RSOX - 28 × 100	28	100	-	-	50	25
RSOX - 28 × 150	28	150	-	-	100	”
RSOX - 38 × 75	38	75	-	-	45	15
RSOX - 38 × 100	38	100	-	-	50	25
RSOX - 38 × 150	38	150	-	-	100	”
RSOX - 48 × 75	48	75	-	-	45	15
RSOX - 48 × 100	48	100	-	-	50	25
RSOX - 48 × 125	48	125	-	-	75	″
RSOX - 48 × 150	48	150	-	-	100	″
RSOX - 48 × 200	48	200	-	-	″	50
RSOX - 75 × 75	75	75	-	-	25	25
RSOX - 75 × 100	75	100	-	-	50	″
RSOX - 75 × 125	75	125	-	-	75	″
RSOX - 75 × 150	75	150	-	-	100	″
RSOX - 75 × 200	75	200			150	″
RSOX - 100 × 100	100	100	50	25	50	″
RSOX - 100 × 125	100	125	″	″	75	″
RSOX - 100 × 150	100	150	″	″	100	″
RSOX - 100 × 200	100	200	″	″	150	″
RSOX - 100 × 250	100	250	″	″	200	″
RSOX - 100 × 300	100	300	″	″	″	50
RSOX - 125 × 150	125	150	50	37.5	100	25
RSOX - 125 × 200	125	200	″	″	150	″
RSOX - 125 × 250	125	250	″	″	200	″
RSOX - 125 × 300	125	300	″	″	″	50
RSOX - 150 × 150	150	150	100	25	100	25
RSOX - 150 × 200	150	200	″	″	150	″
RSOX - 150 × 250	150	250	″	″	200	″

How to order: Part No. W L
订单方式: RSOX 28 75

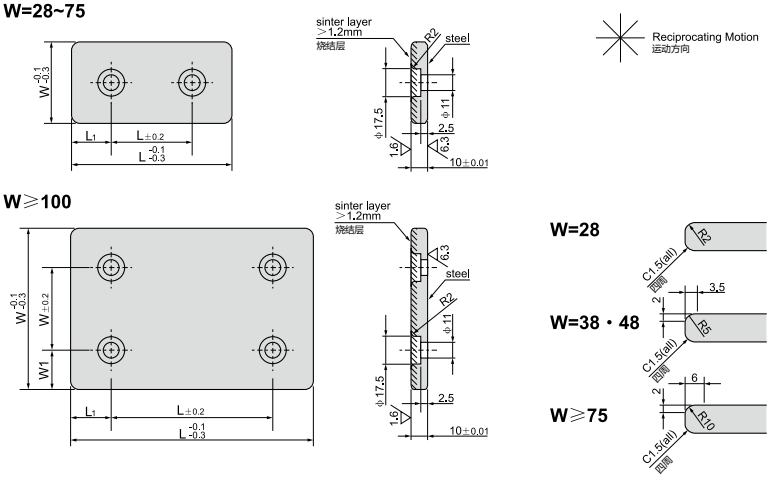
SRI #2000

自润滑板 **RTWX 10mm Wear Plate**

SHANGHAI RICH INTERNATIONAL



材料：低碳钢＋铁镍合金
＋固体润滑剂
Material: Steel＋Fe-Ni
alloy＋Graphite

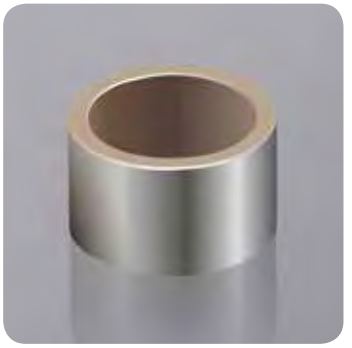


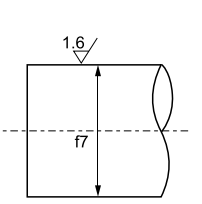
产品代号 Part No.	W	L	W_1	W_2	L_1	L_2
RTWX - 28×75	28	75	-	-	45	15
RTWX - 28×100	28	100	-	-	50	25
RTWX - 28×125	28	125	-	-	75	〃
RTWX - 28×150	28	150	-	-	100	〃
RTWX - 38×75	38	75	-	-	45	15
RTWX - 38×100	38	100	-	-	50	25
RTWX - 38×125	38	125	-	-	75	〃
RTWX - 38×150	38	150	-	-	100	〃
RTWX - 48×75	48	75	-	-	45	15
RTWX - 48×100	48	100	-	-	50	25
RTWX - 48×125	48	125	-	-	75	〃
RTWX - 48×150	48	150	-	-	100	〃
RTWX - 48×200	48	200	-	-		50
RTWX - 75×75	75	75	-	-	25	25
RTWX - 75×100	75	100	-	-	50	〃
RTWX - 75×125	75	125	-	-	75	〃
RTWX - 75×150	75	150	-	-	100	〃
RTWX - 75×200	75	200	-	-	150	〃
RTWX - 100×100	100	100	50	25	50	〃
RTWX - 100×125	100	125	〃	〃	75	〃
RTWX - 100×150	100	150	〃	〃	100	〃
RTWX - 100×200	100	200	〃	〃	150	〃
RTWX - 100×250	100	250	〃	〃	200	〃
RTWX - 100×300	100	300	〃	〃	〃	50
RTWX - 125×125	125	125	75	〃	75	25
RTWX - 125×150	125	150	50	37.5	100	〃
RTWX - 125×200	125	200	〃	〃	150	〃
RTWX - 125×250	125	250	〃	〃	200	〃
RTWX - 125×300	125	300	〃	〃	〃	50
RTWX - 150×150	150	150	100	25	100	25
RTWX - 150×200	150	200	〃	〃	150	〃
RTWX - 150×250	150	250	〃	〃	200	〃

How to order: Part No. W L
订单方式: RTWX 28 75

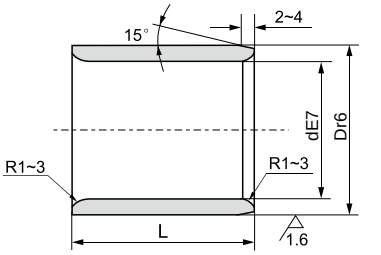
RFC 高性能粉末冶金滑动轴承
High performance Sintered Oilless Bushing

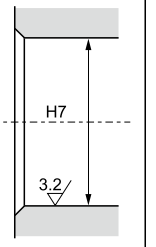
SRI SHANGHAI RICH INTERNATIONAL





相配轴
Mating Shaft





相配座孔
Mating Housing

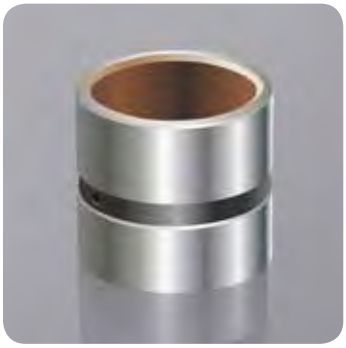
产品代号 Part No.	ID	E7	OD	r6	L -.010/-0.30															
					8	10	12	15	16	19	20	25	30	35	40	50	60	70	80	90	100
RFC-1218XL	12	+0.050 +0.032	18	+0.041 +0.028	●	●	●	●	●	●	●										
RFC-1319XL	13	〃	19	〃		●	●	●			●	●									
RFC-1420XL	14	〃	20	〃		●	●	●			●	●									
RFC-1521XL	15	〃	21	〃		●	●	●	●		●	●	●								
RFC-1622XL	16	〃	22	〃		●	●	●	●	●	●	●	●								
RFC-1824XL	18	〃	24	〃		●	●	●	●		●	●	●	●							
RFC-2028XL	20	+0.061 +0.040	28	〃		●	●	●	●	●	●	●	●	●	●						
RFC-2030XL	〃	〃	30	〃				●	●		●	●	●	●	●						
RFC-2533XL	25	〃	33	+0.050 +0.034			●	●	●	●	●	●	●	●							
RFC-2535XL	〃	〃	35	〃				●	●		●	●	●	●	●	●					
RFC-2838XL	28	〃	38	〃							●	●	●	●	●						
RFC-3038XL	30	〃	38	〃				●			●	●	●	●	●	●	●				
RFC-3040XL	〃	〃	40	〃				●			●	●	●	●	●	●	●				
RFC-3544XL	35	+0.075 +0.050	44	〃							●	●	●	●	●	●	●				
RFC-3545XL	〃	〃	45	〃							●	●	●	●	●	●	●				
RFC-4050XL	40	〃	50	〃					●		●	●	●	●	●	●	●	●	●		
RFC-4555XL	45	〃	55	+0.060 +0.041									●	●	●	●	●				
RFC-4560XL	〃	〃	60	〃									●	●	●	●	●	●			
RFC-5060XL	50	〃	〃	〃							●		●	●	●	●	●	●	●		
RFC-5062XL	〃	〃	62	〃									●	●	●	●	●	●			
RFC-5065XL	〃	〃	65	〃									●		●	●	●	●	●		●
RFC-5570XL	55	+0.090 +0.060	70	+0.062 +0.043											●	●	●	●			
RFC-6074XL	60	〃	74	〃									●	●	●	●	●	●	●		
RFC-6075XL	〃	〃	75	〃									●	●	●	●	●	●	●		
RFC-6580XL	65	〃	80	〃											●	●	●	●	●		
RFC-7085XL	70	〃	85	+0.073 +0.051									●	●	●	●	●	●	●		●
RFC-7090XL	〃	〃	90	〃												●	●	●	●		
RFC-7590XL	75	〃	〃	〃												●	●	●	●		
RFC-7595XL	〃	〃	95	〃															●		●
RFC-8096XL	80	〃	96	〃											●	●	●	●	●		●
RFC-80100XL	〃	〃	100	〃											●	●	●	●	●		●
RFC-90110XL	90	+0.107 +0.072	110	+0.076 +0.054												●	●		●	●	●
RFC-100120XL	100	〃	120	〃												●	●	●	●	●	●

How to order: Part No. d L
订单方式: RFC 12 8

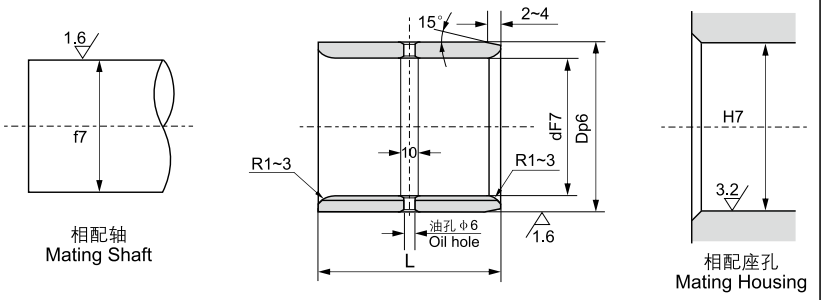
RFCH

钢基高性能粉末冶金滑动轴承
Steel with High performance Sintered Oilless Bushing

SRI
SHANGHAI RICH INTERNATIONAL



外径OD
材料：S45C HRC20~30
内径ID
Material: RFC合金层>2mm



产品代号 Part No.	ID	E7	OD	p6	L -.010/-0.30														
					45	50	55	60	65	70	75	80	85	90	100	110	120	130	160
RFCH-3545XL	35	+0.050 +0.025	45	+0.042 +0.026	●	●	●	●											
RFCH-4555XL	45	〃	55	+0.051 +0.032	●	●	●	●											
RFCH-5060XL	50	〃	60	〃	●	●	●	●	●	●	●	●							
RFCH-5065XL	〃	〃	65	〃	●	●	●	●	●	●	●	●		●	●				
RFCH-5565XL	55	+0.060 +0.030	65	〃	●	●	●	●	●	●	●	●							
RFCH-6075XL	60	〃	75	〃			●	●	●	●	●	●	●	●	●				
RFCH-6580XL	65	〃	80	〃			●	●	●	●	●	●	●	●	●				
RFCH-7085XL	70	〃	85	+0.059 +0.037				●	●	●	●	●	●	●	●				
RFCH-7186XL	71	〃	86	〃					●	●	●	●	●	●	●				
RFCH-8095XL	80	〃	95	〃				●	●	●	●	●	●	●	●	●			
RFCH-80100XL	〃	〃	100	〃				●	●	●	●	●	●	●	●	●			
RFCH-90105XL	90	+0.071 +0.036	105	〃						●	●	●	●	●	●	●	●		
RFCH-90110XL	〃	〃	110	〃						●	●	●	●	●	●	●	●		
RFCH-100115XL	100	〃	115	〃						●	●	●	●	●	●	●	●	●	
RFCH-105120XL	105	〃	120	〃								●	●	●	●	●	●	●	
RFCH-110125XL	110	〃	125	+0.068 +0.043								●	●	●	●	●	●	●	
RFCH-110125XL	〃	〃	〃	〃								●	●	●	●	●	●	●	
RFCH-110130XL	〃	〃	130	〃								●	●	●	●	●	●		
RFCH-120135XL	120	〃	135	〃								●	●	●	●	●	●		
RFCH-125140XL	125	〃	140	〃											●	●	●	●	●
RFCH-125145XL	〃	+0.083 +0.043	145	〃											●	●	●	●	●

How to order: Part No. d L
订单方式: RFCH 35 45

滑动轴承技术参数咨询单
Data For Sliding Bearing Desingn Calculations

SRI SHANGHAI RICH INTERNATIONAL

运用机械或者装置 Applied | 部件名称 Applied Part Name

☐ 原设计 Exist Design
☐ 新设计 New Design

产品形状(尺寸和公差，请附上图纸和规格表) Bearing Specification (Size, tolerance, piease attachment the drawings)

形状及及公差 Shape and Tolerance	☐ 直套 Cylindrical Bush		☐ 翻边轴套 FlangeBush		☐ 滑板 Slide		☐ 垫片 Thrustwasher		☐ 其他 Others		
	法兰 Flange		外径 OD		内径 ID		高度 Length		壁厚 Wall thick		
	宽度 Length		长度 Width		厚度 Thickness						
对磨件 Mating	材质 Material		表面处理 Surface finish		粗糙度 Roughness		硬度 Hardness		公差 Tolerance		
座孔 Housing	材质 Material		座孔壁厚 Housing Wall thick		粗糙度 ID Roughness		向导 Chamfer		公差 Tolerance		
运动方式 Movement	☐ 旋转 Rotation		☐ 摇摆 Oscillating		☐ 往复 Reciprocating						
	转速rpm		角度 Angle ±		行程 Stroke			周期 Cycle	cpm		
载荷 Load	N	面压 Pressure	Mpa		☐ 静承载 Staticlocating ☐ 动承载 Dynamicload ☐ 旋转承载 Rotatingload ☐ 冲击 Impact						
线速度 Speed	m/s		PV值		N/mm^2 · m/s						
轴套使用时间 Service hours per day		天h	☐ 连续 Continuous	☐ 间隙 Intermittent	每年工作日 Service day per year		天/day	运行距离 Distance total	公里/km		
使用环境 Environment： ☐ 大气中 Atmosphere ☐ 海水中 Seawater ☐ 淡水中Freshwater ☐ 泥水中 Turbid ☐ 化学药剂 Chemica(名称 name: PH值:) ☐ 其他 Others											
温度 Temp:	℃	有无异物侵入 Impurity Incursion	☐ 有 Yes ( )	☐ 无 No	密封 Seal	☐ 有 Yes	☐ 无 No				
润滑 Lubricate:	☐ 完全无润滑 Dry ☐ 安装时给油 Initial ☐ 定期供油 Regular giving ☐ 油中 Lubrication ☐ 其他 Others ( )										
润滑剂 Lubricant	☐ 润滑油 Oil ( ) ☐ 润滑脂 Grease ( ) ☐ 其他 Others ( )										
其他说明 Others description : （目前问题点，原有选型材料等等 the technical probiem, the exist material etc. ）											
期望使用寿命 Required Service Life:			允许磨损 Allowed wear lost mm								
轴承的失效判断 Judgment of Bearing Failure:											

贵公司名称 Company: _____ 网址 Web: _____

地址 Address: _____

联系部门 Department: _____ 联系人 Contact Person: _____

邮件 E-mail: _____ 电话 Telephone: _____ 传真 Fax: _____

如对自润滑轴承的设计或材料选型时有疑问请填写以上表格传真到本公司 传真: +86 573 8451 7939
Any questions of self-lubricating bearing material during your design please contact us Fax: +86 573 8451 7939



SRI01
自润滑卷制轴承
Self-Lubricating Bearings



SRI02
边界润滑轴承
Marginal-Lubrication Bearings



SRI03
双金属轴承
Bimetal Bearings



SRI090
青铜卷制轴承
Bronze-Wrapped Bearings



SRI092
青铜卷制通孔轴承
Bronze-Wrapped Bearings



SRI09G
青铜卷制固体嵌轴轴承
Bronze-Wrapped Bearings



SRI07G
固体润滑卷制轴承
Solid-Lubricant-Embedded Wrapped Bearings



SRI05 固体镶嵌轴承
JDB Solid-lubricant-Inlaid Bearings



FD 四氟软带
FD PTFE Soft Strips

你值得信赖的合作伙伴
Your Reliable Partner

SRI
SHANGHAI RICH INTERNATIONAL



上海力其国际贸易有限公司
SHANGHAI RICH INTERNATIONAL CO.,LTD.

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