

JIASHAN LITUB SLIDING BEARING CO., LTD

嘉善力拓滑动轴承有限公司





企业简介 INTRODUCTION

嘉善力拓滑动轴承有限公司是中国无油自润滑轴承生产基地浙江嘉善的一家优秀企业。专业从事无油轴承、自润滑轴承的研究、开发、生产和销售。

嘉善力拓滑动轴承有限公司专业生产LTB-1(DU)无油润滑轴承、LTB-2(DX)边界润滑轴承、LTB-800系列双金属轴承(Bimetal Bushing)、JDB系列镶嵌式固体润滑轴承、LTB-090青铜轴承(Bronze Bushing)、镶嵌型自润滑关节轴承、模具导套、导板，干式轴套，无油止推垫片，青铜球碗等。

公司产品广泛应用于各种机械的滑动和转动部位，如汽摩配件、纺织机械、各类模具，塑机，印刷、食品机械、微电机、电力设备、冶金、矿山机械、重工机械、起重设备、工程机械、水利水电机械等。我们的产品已长期稳定地为国内多家主机制造厂提供配套。

本公司基本以销定产，对于常规尺寸产品有现货供应。对于非标产品，本公司有强大的技术服务团队可代为设计或者按照客户要求生产。欢迎来电来函索取产品资料，以及来人考察。

Jiashan Lituo Bearing Factory is a specialized in developing and manufacturing of self-lubricating bearings, has long been committed to supplying first-class products to numerous domestic and overseas customers and has won a good reputation. The main products mainly include SF-1 oilless bearing, SF-2 boundary lubricating bearing, JF-800 bimetallic bearing, JDB solid-lubricant inlaid bearing, FB090 bronze backed bearings, and other products necessary for assembling of machines. Taking science and technology as the primary productive force, our company is creating excellence and promoting product quality nonstop, and will serve our customers and the society as we have long been.

Sincerely and warmly, we welcome friends from home and abroad for advice and exchanges.

Our products widely used in the parts of sliding and Rotating of all kind machinery,as automobiles-motorcycles fittings, textile machinery,molds,injection machine, printing and food machinery, micro machine, power equipment, metallurgy and mine machinery, heavy Machinery, hoisting Machinery, engineering machinery, hydraulic machinery etc.



材料组织 Material Structure

1. 聚四氟乙烯与铅 0.01~0.03mm
PTFE with lead 0.01~0.03mm
2. 球形青铜粉 0.2~0.35mm
Bronze powder 0.2~0.35mm
3. 钢背 0.7~2.2mm
Steel backing 0.7~2.2mm
4. 镀铜/锡层 0.002mm
Copper/Tin plating 0.002mm



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2
3
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技术参数 Tech. Data

最大承载 P Max Load Capacity	静承载 Static load	250N/mm ²
	动承载 Dynamic load	140N/mm ²
	摇摆运动 Rotating oscillating	60N/mm ²
最大PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm ² · m/s
	油润滑 Oil lubrication	50N/mm ² · m/s
使用温度 Working temperature	-195℃~+280℃	

摩擦系数 Friction coefficient		0.03~0.20μ
最大线速度 Max.Speed	干摩擦 Dry friction	2m/s
	油润滑 Oil lubrication	>2m/s
导热系数 Thermal conductivity		42 W(m*K) ⁻¹
热膨胀系数 Coef. of thermal expansion		11*10 ⁻¹⁶ *K ⁻¹

应用特点 Application characteristic

无油润滑或少油润滑，适用于无法加油或较难加油场合，可以在使用时不保养或少保养。

耐磨性能好摩擦系数小，使用寿命长。

有适量的弹塑性，能将应力分布在较宽的接触面上，从而提高轴承的承载能力。

静动摩擦系数接近，可消除低速下的爬行，从而保证精密机械的工作精度。

能使机械减少振动、降低噪音，防止环境污染改善劳动条件。

在运转过程中能形成转移膜，起到保护对磨轴作用无咬轴现象。

对于磨轴的硬度要求低，未经调质处理的轴都可以使用，从而降低了相关零件的加工难度

薄壁结构、质量轻、可缩小机械体积。

钢板面可电镀多种金属，可在腐蚀介质中使用；目前以广泛应用与各种机械的滑动部分。

Free of oil or less oil lubrication, applicable for conditions such as incapable of adding or difficult to add oil. it can be used without maintenance or less maintenance.

With good wearing quality, small friction factor and long performance life.

With certain elasto-plasticity, which can distribute the stress to a wider contact surface, thus the load capacity is promoted.

Static and kinetic friction coefficient is very near, which can make the bearing crawl at low speed, so as to guarantee the operation precision of precision machinery.

Good running-in feature, need no scraping upon assembling. It can reduce vibration of the mechanism so that noise is depressed, which prevents environmental pollution and improves working condition.

Shifting membrane is formed during the course of running, which can protect the counter-friction shaft from wearing and seizing.

Low requirement of hardness for the counter-friction shaft. Even you can use ones without quenching and tempering. so that processing difficulty lowers down.

It is of thin-wall structure and light weight. which can reduce the size of the mechanism.

On water or oil absorption, low thermal coefficient, good thermal diffusivity and stable dimensions.

The base plate can adopt stainless steel, the blue and green copper, such materials as the stencil plate of low carbon, etc. . Need with right various kinds of working environment.

LTB-1系列自润滑卷制轴承 Self-Lubricating Bearing



LTB-1W 无给油轴承 Dry bearings

PTFE/无铅+铜粉+低碳钢板



适用于无法加油或较难加油的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象；对磨轴的加工要求降低，减轻了用户加工成本。由于采用无铅工艺，更适用于环保产品，如：食品、医疗。

Suitable for dry running with a low coefficient of friction, low wear rate, good sliding characteristics. The transfer film created will protect the mating metal surface. Suitable for both rotary and oscillating movement, high chemical resistance, lower absorption of water and reduced swelling. Also performs well with lubrication.

最大承载 Max Load	静承载 Static	250N/mm ²	摩擦系数 Friction coefficient		0.03~0.20
	动承载 Dynamic	140N/mm ²	最大PV (干) Max PV (Dry)		短时间 Short-time 连续 Continuous
最大线速度 Max. Speed	干 Dry	2m/s	导热系数 Thermal conductivity		42 W/(m · K) ⁻¹
	流体 Lubrication	>2m/s	热膨胀系数 Coef. of thermal expansion		11 · 10 ⁻¹⁶ · K ⁻¹
使用温度 Temp.		-195℃~+280℃			

LTB-1S 无给油轴承 Dry bearings

PTFE/纤维+铜粉+不锈钢基板



适用于无法加油或较难加油的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象。广泛运用于工业用阀门，汽车门铰链、引擎铰链、行李箱铰链、减震阻尼导套等。由于采用不锈钢基板，比LTB-1更具耐腐蚀性。

Suitable for dry running with a low coefficient of friction, low wear rate, good sliding characteristics. The transfer film created will protect the mating metal surface. Suitable for both rotary and oscillating movement. Typical applications in the automotive industry include car door hinges, trunk (boot) hinges, hood (bonnet) hinges, dampers, seat adjuster mechanisms etc.

最大承载 Max Load	静承载 Static	250N/mm ²	摩擦系数 Friction coefficient		0.05~0.20
	动承载 Dynamic	140N/mm ²	最大PV (干) Max PV (Dry)		短时间 Short-time 连续 Continuous
最大线速度 Max. Speed	干 Dry	2m/s	导热系数 Thermal conductivity		42 W/(m · K) ⁻¹
	流体 Lubrication	>2m/s	热膨胀系数 Coef. of thermal expansion		11 · 10 ⁻¹⁶ · K ⁻¹
使用温度 Temp.		-195℃~+280℃			

LTB-1D 无给油轴承 Dry bearings

PTFE/纤维+铜粉+碳钢板



适用于无法加油或较难加油的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象；同时LTB-1D特殊的耐磨层设计为在润滑条件下比LTB-1具有更好的耐磨性于极低的摩擦系数。

Suitable for dry running with a low coefficient of friction, low wear rate, good sliding characteristics. The transfer film created will protect the mating metal surface. Suitable for both rotary and oscillating movement, lower absorption of water and swelling. The LTB-1D range reduces the friction and the wear resistance over the common LTB-1, when lubricated.

最大承载 Max Load	静承载 Static	250N/mm ²	摩擦系数 Friction coefficient		0.05~0.20
	动承载 Dynamic	140N/mm ²	最大PV (干) Max PV (Dry)		短时间 Short-time 连续 Continuous
最大线速度 Max. Speed	干 Dry	2m/s	导热系数 Thermal conductivity		42 W/(m · K) ⁻¹
	流体 Lubrication	>2m/s	热膨胀系数 Coef. of thermal expansion		11 · 10 ⁻¹⁶ · K ⁻¹
使用温度 Temp.		-195℃~+280℃			
PV流体润滑	PV Hydrodynamic	30N/mm ² · m/s			

LTB-1B 无给油轴承 Dry bearings

PTFE/纤维+铜粉+青铜基板

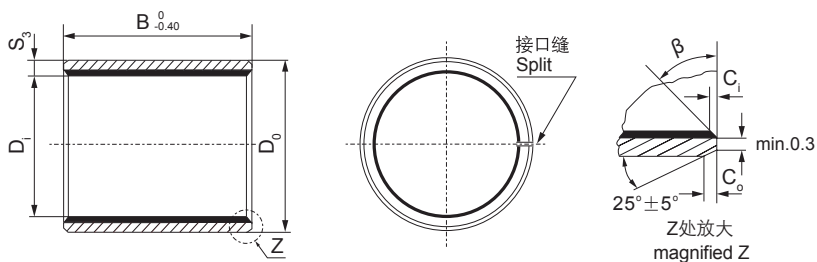


适用于无法加油或较难加油的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象；由于基板是青铜，因此比LTB-1具有更好的耐腐蚀性。

Suitable for dry running with a low coefficient of friction, low wear rate, good sliding characteristics. The transfer film created will protect the mating metal surface. Suitable for both rotary and oscillating movement, high chemical resistance, lower adsorption of water and swelling. Also performs well with lubrication. Bronze backing provides improved corrosion resistance compared with the LTB-1 range.

最大承载 Max Load	静承载 Static	250N/mm ²	摩擦系数 Friction coefficient		0.03~0.20
	动承载 Dynamic	140N/mm ²	最大PV (干) Max PV (Dry)		短时间 Short-time 连续 Continuous
最大线速度 Max. Speed	干 Dry	2m/s	导热系数 Thermal conductivity		70W/(m · K) ⁻¹
	流体 Lubrication	>2m/s	热膨胀系数 Coef. of thermal expansion		17 · 10 ⁻¹⁶ · K ⁻¹
使用温度 Temp.		-195℃~+280℃			

LTB-1系列标准公制尺寸 Self-Lubricating Bearing Metric Size



内外倒角

S_3	C_o	C_i	β	S_3	C_o	C_i	β
0.75	0.5 ± 0.3	0.25 ± 0.2	$30^\circ \pm 5^\circ$	2.00	1.2 ± 0.4	0.50 ± 0.3	$30^\circ \pm 5^\circ$
1.00	0.6 ± 0.3	0.30 ± 0.2	$30^\circ \pm 5^\circ$	2.50	1.8 ± 0.6	0.60 ± 0.3	$45^\circ \pm 5^\circ$
1.50	0.7 ± 0.3	0.50 ± 0.3	$30^\circ \pm 5^\circ$				

单位unit:mm

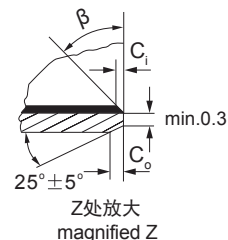
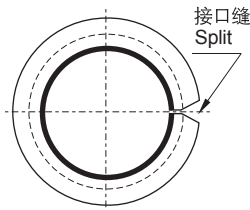
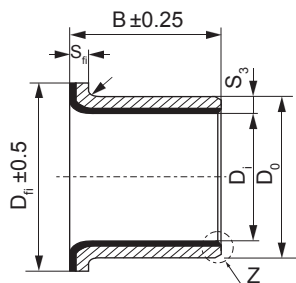
轴径 D _S	6 -0.010 -0.022	8 -0.013 -0.028	10 -0.013 -0.028	12 -0.016 -0.034	13 -0.016 -0.034	14 -0.016 -0.034	15 -0.016 -0.034	16 -0.016 -0.034	17 -0.016 -0.034	18 -0.016 -0.034	20 -0.020 -0.041	22 -0.020 -0.041	24 -0.020 -0.041	25 -0.020 -0.041	28 -0.020 -0.041	30 -0.020 -0.041	32 -0.025 -0.050	35 -0.025 -0.050	38 -0.025 -0.050	40 -0.025 -0.050	
座孔 H7 D _H	8 ^{+0.015}	10 ^{+0.015}	12 ^{+0.018}	14 ^{+0.018}	15 ^{+0.018}	16 ^{+0.018}	17 ^{+0.018}	18 ^{+0.018}	19 ^{+0.021}	20 ^{+0.021}	23 ^{+0.021}	25 ^{+0.021}	27 ^{+0.021}	28 ^{+0.021}	32 ^{+0.025}	34 ^{+0.025}	36 ^{+0.025}	39 ^{+0.025}	42 ^{+0.025}	44 ^{+0.025}	
外径公差 D _O	8 ^{+0.055} +0.025	10 ^{+0.055} +0.025	12 ^{+0.065} +0.030	14 ^{+0.065} +0.030	15 ^{+0.065} +0.030	16 ^{+0.065} +0.030	17 ^{+0.065} +0.030	18 ^{+0.065} +0.030	19 ^{+0.075} +0.035	20 ^{+0.075} +0.035	23 ^{+0.075} +0.035	25 ^{+0.075} +0.035	27 ^{+0.075} +0.035	28 ^{+0.075} +0.035	32 ^{+0.085} +0.045	34 ^{+0.085} +0.045	36 ^{+0.085} +0.045	39 ^{+0.085} +0.045	42 ^{+0.085} +0.045	44 ^{+0.085} +0.045	
装配后内孔公差 D _{i,a}	6.055 5.990	8.055 7.990	10.058 9.990	12.058 11.990	13.058 12.990	14.058 13.990	15.058 14.990	16.058 15.990	17.061 16.990	18.061 17.990	20.071 19.990	22.071 21.990	24.071 23.990	25.071 24.990	28.085 27.990	30.085 29.990	32.085 31.990	35.085 34.990	38.085 37.990	40.085 39.990	
间隙 C _D	0.077 0.000	0.083 0.003	0.086 0.003	0.092 0.006				0.095 0.006				0.112 0.010			0.126 0.010			0.135 0.015			
壁厚公差 S ₃	1.005 0.980										1.505 1.475					2.005 1.970					

轴径 D _S	45 -0.050 -0.025	50 -0.050 -0.025	55 -0.060 -0.030	60 -0.060 -0.030	65 -0.060 -0.030	70 -0.060 -0.030	75 -0.060 -0.030	80 -0.046	85 -0.054	90 -0.054	95 -0.054	100 -0.054	105 -0.054	110 -0.054
座孔 H7 D _H	50 +0.025	55 +0.030	60 +0.030	65 +0.030	70 +0.030	75 +0.030	80 +0.030	85 +0.035	90 +0.035	95 +0.035	100 +0.035	105 +0.035	110 +0.035	115 +0.035
外径公差 D _O	50 +0.085 +0.045	55 +0.100 +0.055	60 +0.100 +0.055	65 +0.100 +0.055	70 +0.100 +0.055	75 +0.100 +0.055	80 +0.100 +0.055	85 +0.120 +0.070	90 +0.120 +0.070	95 +0.120 +0.070	100 +0.120 +0.070	105 +0.120 +0.070	110 +0.120 +0.070	115 +0.120 +0.070
装配后内孔公差 D _{i,a}	45.105 44.990	50.110 49.990	55.110 54.990	60.110 59.990	65.110 64.990	70.110 69.990	75.110 74.990	80.155 80.020	85.155 85.020	90.155 90.020	95.155 95.020	100.155 100.020	105.155 105.020	110.155 110.020
间隙 C _D	0.155 0.015	0.160 0.015	0.170 0.020					0.201 0.020	0.209 0.020					
壁厚公差 S ₃	2.505 2.460								2.490 2.440					

轴径 D _S	120 ^{-0.054}	125 ^{-0.063}	130 ^{-0.063}	140 ^{-0.063}	150 ^{-0.063}	160 ^{-0.063}	180 ^{-0.063}	190 ^{-0.072}	200 ^{-0.072}	220 ^{-0.072}	250 ^{-0.072}	260 ^{-0.081}	280 ^{-0.081}	300 ^{-0.081}
座孔 H7 D _H	125 ^{+0.040}	130 ^{+0.040}	135 ^{+0.040}	145 ^{+0.040}	155 ^{+0.040}	165 ^{+0.040}	185 ^{+0.046}	195 ^{+0.046}	205 ^{+0.046}	225 ^{+0.046}	255 ^{+0.052}	265 ^{+0.052}	285 ^{+0.052}	305 ^{+0.052}
外径公差 D _O	125 ^{+0.170 +0.100}	130 ^{+0.170 +0.100}	135 ^{+0.170 +0.100}	145 ^{+0.170 +0.100}	155 ^{+0.170 +0.100}	165 ^{+0.170 +0.100}	185 ^{+0.210 +0.130}	195 ^{+0.210 +0.130}	205 ^{+0.210 +0.130}	225 ^{+0.210 +0.130}	255 ^{+0.260 +0.170}	265 ^{+0.260 +0.170}	285 ^{+0.260 +0.170}	305 ^{+0.260 +0.170}
装配后内孔公差 D _{i,a}	120.210 120.070	125.210 125.070	130.210 130.070	140.210 140.070	150.210 150.070	160.210 160.070	180.216 180.070	190.216 190.070	200.216 200.070	220.216 220.070	250.222 250.070	260.222 260.070	280.222 280.070	300.222 300.070
间隙 C _D	0.264 0.070	0.273 0.070					0.279 0.070	0.288 0.070			0.294 0.070	0.303 0.070		
壁厚公差 S ₃	2.465 2.415						2.465 2.415				2.465 2.415			

注：长度B按客户需求制作

LTB-1F翻边衬套标准公制尺寸 Flanged Bearing Standard Metric Size



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

单位unit:mm

轴径 D_s	6 -0.013 -0.028	8 -0.013 -0.028	10 -0.016 -0.034	12 -0.016 -0.034	14 -0.016 -0.034	15 -0.016 -0.034	16 -0.016 -0.034
座孔 H7 D_H	8 $+0.015$	10 $+0.015$	12 $+0.018$	14 $+0.018$	16 $+0.018$	17 $+0.018$	18 $+0.018$
外径公差 D_o	8 $+0.055$ $+0.025$	10 $+0.055$ $+0.025$	12 $+0.055$ $+0.025$	14 $+0.065$ $+0.030$	16 $+0.065$ $+0.030$	17 $+0.065$ $+0.030$	18 $+0.065$ $+0.030$
装配后内孔公差 $D_{i,a}$	6.055 5.990	8.055 7.990	10.058 9.990	12.058 11.990	14.058 13.990	15.058 14.990	16.058 15.990
间隙 C_D	0.077 0.000	0.083 0.003	0.086 0.003	0.092 0.006			
法兰尺寸 D_{fi}	12	15	18	20	22	23	24
法兰壁厚 S_{fi}	0 -0.2						

轴径 D_s	18 -0.016 -0.034	20 -0.020 -0.041	22 -0.020 -0.041	25 -0.020 -0.041	30 -0.025 -0.050	35 -0.025 -0.050	40 -0.025 -0.050
座孔 H7 D_H	20 $+0.021$	23 $+0.021$	25 $+0.021$	28 $+0.021$	34 $+0.025$	39 $+0.025$	44 $+0.025$
外径公差 D_o	20 $+0.075$ $+0.035$	23 $+0.075$ $+0.035$	25 $+0.075$ $+0.035$	28 $+0.075$ $+0.035$	34 $+0.075$ $+0.035$	39 $+0.085$ $+0.045$	44 $+0.085$ $+0.045$
装配后内孔公差 $D_{i,a}$	18.061 17.990	20.071 19.990	22.071 21.990	25.071 24.990	30.085 29.990	35.085 34.990	40.085 39.990
间隙 C_D	0.095 0.006	0.112 0.010			0.126 0.010	0.135 0.015	
法兰尺寸 D_{fi}	26	30	32	35	42	47	53
法兰壁厚 S_{fi}	0 -0.2	0 -0.2			0 -0.2		

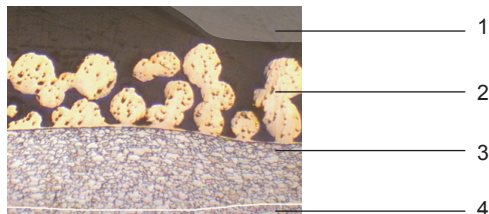
注：长度B按客户需求制作

LTB-2系列边界润滑轴承 Marginal Self-Lubricating Bearing



材料组织 Material Structure

1. 改性聚甲醛 0.30-0.50mm
Is improved to gather for first enzyme 0.30-0.50mm
2. 球形青铜粉 0.20-0.35mm
Spherical bronze powder is 0.20-0.35mm
3. 钢背 0.40-2.2mm
Steel carries 0.40-2.2mm
4. 镀铜层 0.008mm
Copper facing layer is 0.008mm



技术参数 Tech. Data

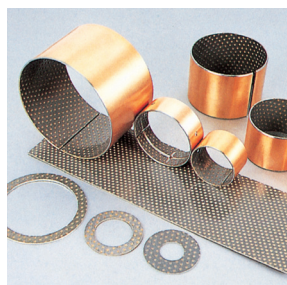
最大承载 P Max Load Capacity	静承载 Static load 动承载 Dynamic load	250N/mm ² 140N/mm ²
最大线速度 Max.Speed		2m/s
最大PV值 Max PV Value Limit		3N/mm ² · m/s
使用温度 Working temperature		-40℃~+110℃

摩擦系数 Friction coefficient	0.05~0.20
导热系数 Thermal conductivity	4W(m*k) ⁻¹
热膨胀系数 Coef. of thermal expansion	11*10 ⁻⁶ K ⁻¹

应用特点 Application characteristic

1. 在少油情况下工作，性能超过其他已知边界润滑材料。
 2. 摩擦面较硬且厚，耐磨性好。
 3. 机械强度大，能承受较大的动、静载荷。适用于高载低速下的旋转运动、摇摆运动及经常在载荷下启闭频繁而不易形成流体动力润滑的场合。
 4. 在边界润滑条件下可长期不加油保养，而在过程中加油使轴承使用寿命更长。
 5. 表面农用机械塑料层在加工成型时可留一定的余量，装配压入座空后可自行加工，以达到更好的装配尺寸。
 6. 产品主要运用于汽车底盘、冶金机械、矿山机械、水利机械、建筑机械、农用机械、轧钢设备等。
- 可供标准产品：直套，止推垫片，板材。
- 可供非标产品：直套，翻边轴套，止推垫片，板材，轴瓦，滑板，钢套组合件。
1. It is superior to those known marginal lubricating materials when lacking of lubrication oil.
 2. Owing to its thick and hard surface of friction, it has the advantage of low wear.
 3. High mechanical strength, it can stand heavy dynamic and static load. It is used in high load capacities and low speed with rotational, oscillating or frequent stop-start motion.
 4. It can work long time without oil in the condition of boundaw lubrication-under oil or grease lubrication Interval, the work is longer.
 5. It is machinable for the thicker of POM.
 6. The bushes can be applied in auto chassis, forging machine, metallurgical, civil engineering, power st-ion, strip rolling industries etc. Standard products available: straight bushings, thrust plates and planks.
- Non-standard products available: straight bushings, flanged edge shaft sleeves, thrust plates, planks, bearing bushings, slide plates and steel bushing assembly.

LTB-2X碳钢基自润滑轴承 Marginal self-lubricated bearings



承载好，耐磨性能良好。

适用于高载低速下的旋转运动、摇摆运动以及经常在载荷下起闭频繁而不易形成流体动力润滑的场合。

在边界润滑条件下长期不加油保养，而在过层中加油使轴承使用寿命更长。

表面塑料在加工成型时可保留一定的余量，装配压入座孔后可自行加工，以达到更好的装配尺寸。

产品主要适用于压延设备、汽车底盘、冶金机械、矿山机械、水利机械、建筑机械、农用机械、轧钢设备等。

Good load capacity and anti-wear.

It is in high load capacity and low speed with rotaional, oscillating or frequent stop-start motion.

It can work long time eithout oil in the condition of bounday lubrication, under oil or grease lubrication interval, the work is longer.

It is machinable for the thicker of POM.

The bushes can be applied in auto chassis. Forging machine, metallurgical, civil engineering, power station, strip rolling industrirs etc.

LTB-2Y边界润滑环保轴承 Marginal Pb-free self-lubricated bearings



承载好，耐磨性能良好。

适用于高载低速下的旋转运动、摇摆运动以及经常在载荷下起闭频繁而不易形成流体动力润滑的场合。

在边界润滑条件下长期不加油保养，而在过层中加油使轴承使用寿命更长。

表面塑料在加工成型时可保留一定的余量，装配压入座孔后可自行加工，以达到更好的装配尺寸。

产品主要适用于压延设备、汽车底盘、冶金机械、矿山机械、水利机械、建筑机械、农用机械、轧钢设备等。

因其不含铅，故可广泛应用于环保领域。

Good load capacity and anti-wear.

It is in high load capacity and low speed with rotaional, oscillating or frequent stop-start motion.

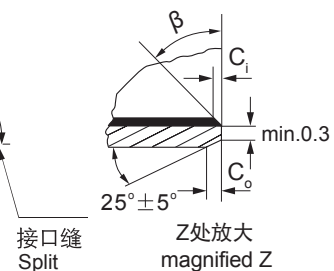
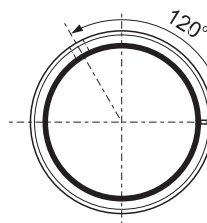
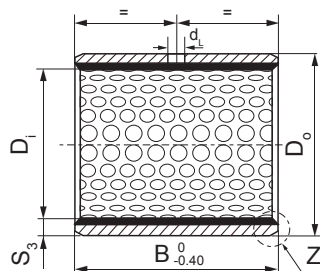
It can work long time eithout oil in the condition of bounday lubrication, under oil or grease lubrication interval, the work is longer.

It is machinable for the thicker of POM.

The bushes can be applied in auto chassis. Forging machine, metallurgical, civil engineering, power station, strip rolling industrirs etc.

It is widely used in the machine that lead iS unacceptable.

LTB-2系列边界润滑轴承标准公制尺寸 Marginal Self-Lubricating Bearing Standard Metric Sizes



内外倒角

S_3	C_o	C_i	β	S_3	C_o	C_i	β
1.0	0.6 ± 0.3	0.30 ± 0.2	$30^\circ \pm 5^\circ$	2.00	1.2 ± 0.4	0.50 ± 0.3	$30^\circ \pm 5^\circ$
1.5	0.7 ± 0.3	0.50 ± 0.2	$30^\circ \pm 5^\circ$	2.50	1.8 ± 0.6	0.60 ± 0.3	$45^\circ \pm 5^\circ$

单位unit:mm

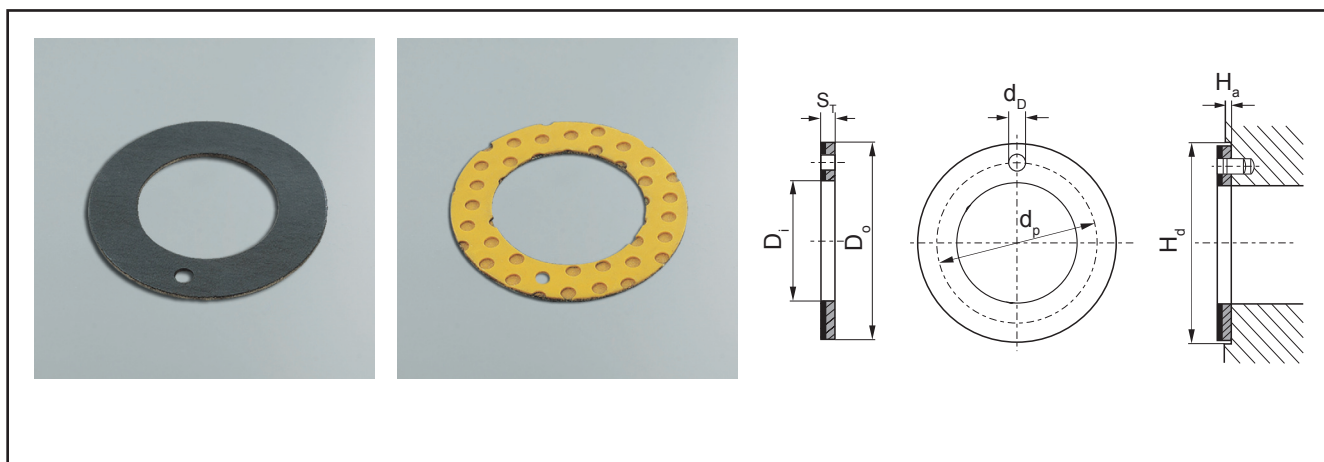
轴径 D _S	10 _{-0.022}	12 _{-0.027}	14 _{-0.027}	15 _{-0.027}	16 _{-0.027}	18 _{-0.027}	20 _{-0.033}	22 _{-0.033}	25 _{-0.033}	28 _{-0.033}	30 _{-0.033}	35 _{-0.039}	40 _{-0.039}	45 _{-0.039}	50 _{-0.039}	55 _{-0.046}	60 _{-0.046}
座孔 H7 D _H	12 ^{+0.018}	14 ^{+0.018}	16 ^{+0.018}	17 ^{+0.018}	18 ^{+0.018}	20 ^{+0.021}	23 ^{+0.021}	25 ^{+0.021}	28 ^{+0.021}	32 ^{+0.025}	34 ^{+0.025}	39 ^{+0.025}	44 ^{+0.025}	50 ^{+0.025}	55 ^{+0.030}	60 ^{+0.030}	65 ^{+0.030}
外径公差 D _O	12 ^{+0.065} _{+0.030}	14 ^{+0.065} _{+0.030}	16 ^{+0.065} _{+0.030}	17 ^{+0.065} _{+0.030}	18 ^{+0.065} _{+0.030}	20 ^{+0.075} _{+0.035}	23 ^{+0.075} _{+0.035}	25 ^{+0.075} _{+0.035}	28 ^{+0.075} _{+0.035}	32 ^{+0.085} _{+0.045}	34 ^{+0.085} _{+0.045}	39 ^{+0.085} _{+0.045}	44 ^{+0.085} _{+0.045}	50 ^{+0.085} _{+0.045}	55 ^{+0.100} _{+0.055}	60 ^{+0.100} _{+0.055}	65 ^{+0.100} _{+0.055}
装配后内孔公差 D _{I,a}	10.108 10.040	12.108 12.040	14.108 14.040	15.108 15.040	16.108 16.040	18.111 18.040	20.131 20.050	22.131 22.050	25.131 25.050	28.155 28.060	30.155 30.060	35.155 35.060	40.155 40.060	45.195 45.080	50.200 50.080	55.200 55.080	60.200 60.080
间隙 C _D	0.130 0.040	0.135 0.040				0.138 0.040	0.164 0.050			0.188 0.060		0.194 0.060		0.234 0.080	0.239 0.080	0.246 0.080	
壁厚 S ₃	0.980 0.955						1.475 1.445			1.970 1.935				2.460 2.415			
油孔 d _L	4									6				8			

轴径 D _S	65 ^{-0.046}	70 ^{-0.046}	75 ^{-0.046}	80 ^{-0.046}	85 ^{-0.054}	90 ^{-0.054}	100 ^{-0.054}	105 ^{-0.054}	110 ^{-0.054}	120 ^{-0.054}	125 ^{-0.063}	130 ^{-0.063}	140 ^{-0.063}
座孔 H7 D _H	70 ^{+0.030}	75 ^{+0.030}	80 ^{+0.030}	85 ^{+0.035}	90 ^{+0.035}	95 ^{+0.035}	105 ^{+0.035}	110 ^{+0.035}	115 ^{+0.035}	125 ^{+0.040}	130 ^{+0.040}	135 ^{+0.040}	145 ^{+0.040}
外径公差 D _O	70 ^{+0.100 +0.055}	75 ^{+0.100 +0.055}	80 ^{+0.100 +0.055}	85 ^{+0.120 +0.070}	90 ^{+0.120 +0.070}	95 ^{+0.120 +0.070}	105 ^{+0.120 +0.070}	110 ^{+0.120 +0.070}	115 ^{+0.120 +0.070}	125 ^{+0.170 +0.100}	130 ^{+0.170 +0.100}	135 ^{+0.170 +0.100}	145 ^{+0.170 +0.100}
装配后内孔公差 D _{I,a}	65.200 65.080	70.200 70.080	75.200 75.080	80.265 80.100	85.265 85.100	90.265 90.100	100.265 100.100	105.265 105.110	110.265 110.110	120.270 120.110	125.270 125.110	130.270 130.110	140.270 140.110
间隙 C _D	0.246 0.080			0.313 0.100	0.321 0.100					0.324 0.110			
壁厚 S ₃	2.460 2.415			2.450 2.385									
油孔 d _i	8			9.5									

轴径 D _S	150 _{-0.063}	160 _{-0.063}	170 _{-0.063}	180 _{-0.063}	190 _{-0.072}	200 _{-0.072}	220 _{-0.072}	240 _{-0.072}	250 _{-0.072}	260 _{-0.081}	280 _{-0.081}	300 _{-0.081}
座孔 H7 D _H	155 _{+0.040}	165 _{+0.040}	175 _{+0.040}	185 _{+0.046}	195 _{+0.046}	205 _{+0.046}	225 _{+0.046}	245 _{+0.046}	255 _{+0.052}	265 _{+0.052}	285 _{+0.052}	305 _{+0.052}
外径公差 D _O	155 _{+0.170 +0.100}	165 _{+0.170 +0.100}	175 _{+0.170 +0.100}	185 _{+0.210 +0.130}	195 _{+0.210 +0.130}	205 _{+0.210 +0.130}	225 _{+0.210 +0.130}	245 _{+0.210 +0.130}	255 _{+0.260 +0.170}	265 _{+0.260 +0.170}	285 _{+0.260 +0.170}	305 _{+0.260 +0.170}
装配后内孔公差 D _{I,a}	150.270 150.110	160.270 160.110	170.270 170.110	180.276 180.110	190.276 190.110	200.276 200.110	220.276 220.110	240.276 240.110	250.282 250.110	260.282 260.110	280.282 280.110	300.282 300.110
间隙 C _D	0.324 0.110			0.339 0.110					0.354 0.110			
壁厚 S ₃	2.450 2.385											
油孔 d _i	9.5	9.5					9.5					

注：长度B按客户需求制作

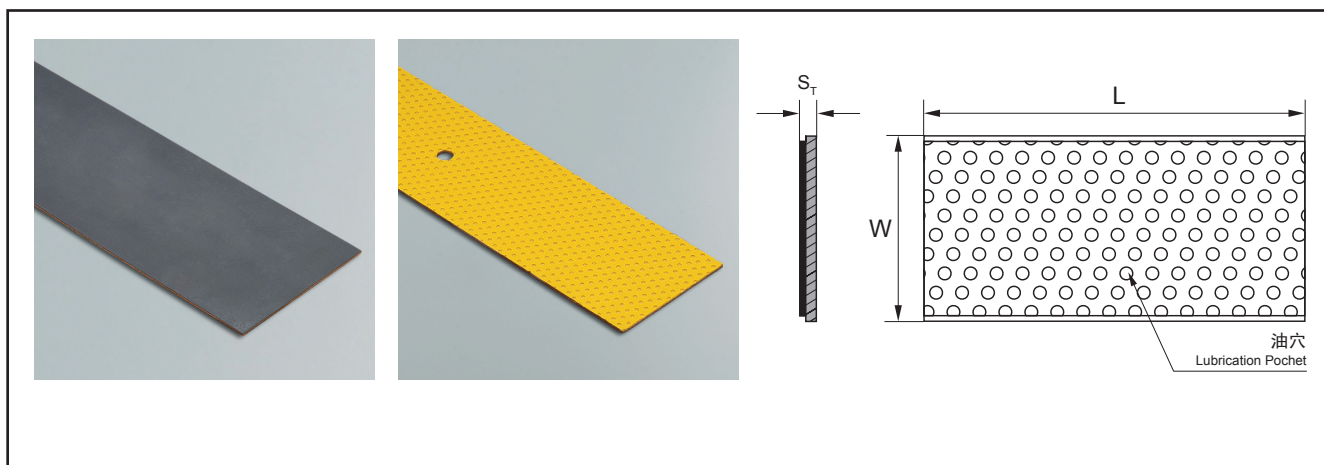
LTB-1/LTB-2止推垫片标准公制尺寸 Thrust Washer Standard Metric Sizes



单位unit:mm

轴径 D _s		8	10	12	14	16	18	20	22	24	26	30	36	40	46	50	60
型号 Designation		WC10	WC12	WC14	WC16	WC18	WC20	WC22	WC24	WC26	WC28	WC32	WC38	WC42	WC48	WC52	WC62
垫片尺寸 Washer dimension	D _i +0.25	10	12	14	16	18	20	22	24	26	28	32	38	42	48	52	62
	D _o -0.25	20	24	26	30	32	36	38	42	44	48	54	62	66	74	78	90
	S _T -0.05	1.5													2		
	d _p ± 0.125	15	18	20	23	25	28	30	33	35	38	43	50	54	61	65	76
安装尺寸 Installation size	d _D ^{+0.4} _{+0.1}	1.5		2			3				4						
	H _a ± 0.2	1													1.5		
	H _d +0.12	20	24	26	30	32	36	38	42	44	48	54	62	66	74	78	90

LTB-1/LTB-2板材标准尺寸 Strips Metric Sizes



单位unit:mm

代号 Code number	P 1.0	P 1.5	P 2.0	P 2.5
长度 (L)±1	500	500	500	500
宽度 (W)±1	150	150	150	150
壁厚 (T)-0.05	1.0	1.5	2.0	2.5

LTB-800双金属轴承 Bimetal bushing



LTB-800双金属轴承，是以低碳钢板为基体材料，表面烧结CuPb10Sn10或CuSn6Zn6Pb3材料的钢铜合金产品。该产品是双合金轴承中承载能力最强的一种，重型车的平衡桥衬套，均使用该产品。它是一种用途很广的高载何低速运动轴承。

LTB-800 bimetal bushing is based on steel and sintered with CuPb10Sn10 as a lining layer. This type has the best performance within the range of Cu-Pb alloy constructed bushing. Therefore it has a wide application and is mostly suitable for where is middle speed and high impact etc.

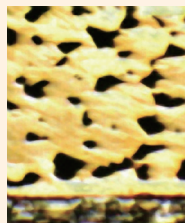
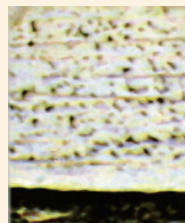
LTB-20双金属轴承 Bimetal bushing



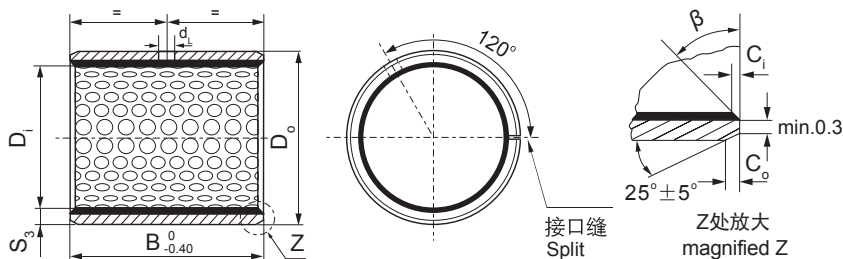
LTB-20高锡铝基轴承是以钢板为基体，表面辊压AlSn20Cu材料的产品。该产品具有中等疲劳强度和承载能力，良好抗腐蚀性能，较好的轴承滑动性能等特点，常用作中小功率的内燃机轴瓦、火车发动机轴瓦、空气压力机轴套、制冷机轴承，是取代巴氏合金的新颖产品。

LTB-20 is a high tin and aluminum based bushing, which adopts steel as backing and is coated a lining of AlSn20Cu through rolling treatment. It is a fairly good fatigue resistance, load capacity and good anti-corrosion and also performs well in bearing's sliding properties. It is widely applied under high speed and low load such as in internal combustion engine, air compressor and cooling machine.

技术参数 Tech.Data

有关数据 Data	代号 Code	LTB-800	LTB-20
	材料 Material	碳钢 + CuPb ₁₀ Sn ₁₀	碳钢 + AlSn ₂₀ Cu
最大承载压力P Max Load capacity P		150N/mm ²	100N/mm ²
最大线速度 V Max line speed V	脂润滑 Greases lubrication	2.5m/s	
最高PV值 Maximum PV value		2.8N/mm ² · m/s	
摩擦系数u Friction coef u		0.05~0.15	
最大线速度 V Max line speed V	流体(油)润滑 (Oil)lubrication	10m/s	25m/s
最高PV值 Maximum PV value		10N/mm ² · m/s	25N/mm ² · m/s
摩擦系数u Friction coef u		0.05~0.12	0.06~0.17
最高温度 Max Working temperature	脂润滑 Greases lubrication	150℃	150℃
	流体润滑 lubrication	250℃	250℃
合金硬度 Alloy hardness		60~90HB	30~40HB
金相组织图 X100 Metallographies			

LTB-800双金属轴承标准公制尺寸 Bimetal Bearing Standard Metric Sizes



内外倒角

S_3	C_o	C_i	β	S_3	C_o	C_i	β
1.00	0.6 ± 0.3	0.30 ± 0.2	$35^\circ \pm 5^\circ$	2.00	1.2 ± 0.4	0.50 ± 0.3	$30^\circ \pm 5^\circ$
1.50	0.7 ± 0.3	0.50 ± 0.3	$35^\circ \pm 5^\circ$	2.50	1.8 ± 0.6	0.60 ± 0.3	$45^\circ \pm 5^\circ$

单位unit:mm

内径 D _i	10	12	14	15	16	18	20	22	24	25	26	28	30	32	35	38	40
外径 D _o	12	14	16	17	18	20	23	25	27	28	30	32	34	36	39	42	44
轴径 D _S	10 _{-0.022}	12 _{-0.027}	14 _{-0.027}	15 _{-0.027}	16 _{-0.027}	18 _{-0.027}	20 _{-0.033}	22 _{-0.033}	24 _{-0.033}	25 _{-0.033}	26 _{-0.033}	28 _{-0.033}	30 _{-0.033}	32 _{-0.039}	35 _{-0.039}	38 _{-0.039}	40 _{-0.039}
座孔 D _H	12 ^{+0.018}	14 ^{+0.018}	16 ^{+0.018}	17 ^{+0.018}	18 ^{+0.018}	20 ^{+0.021}	23 ^{+0.021}	25 ^{+0.021}	27 ^{+0.021}	28 ^{+0.021}	30 ^{+0.021}	32 ^{+0.025}	34 ^{+0.025}	36 ^{+0.025}	39 ^{+0.025}	42 ^{+0.025}	44 ^{+0.025}
装配后内径公差 D _{i, a}	+0.148 +0.010					+0.151 +0.010		+0.161 +0.020				+0.181 +0.040		+0.185 +0.040			
间隙 C _D	0.170 0.010	0.175 0.010				0.178 0.010		0.194 0.020				0.214 0.040		0.218 0.040		0.224 0.040	
壁厚 S ₃	0.995 0.935						1.490 1.430				1.980 1.920						
油孔 d _L	4							6							8		

内径 D _i	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	150
外径 D _o	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	155
轴径 D _s	45 _{-0.039}	50 _{-0.039}	55 _{-0.046}	60 _{-0.046}	65 _{-0.046}	70 _{-0.046}	75 _{-0.046}	80 _{-0.046}	85 _{-0.054}	90 _{-0.054}	95 _{-0.054}	100 _{-0.054}	105 _{-0.054}	110 _{-0.054}	115 _{-0.054}	120 _{-0.054}	125 _{-0.063}	130 _{-0.063}	135 _{-0.063}	140 _{-0.063}	150 _{-0.063}
座孔 D _H	50 ^{+0.025}	55 ^{+0.030}	60 ^{+0.030}	65 ^{+0.030}	70 ^{+0.030}	75 ^{+0.030}	80 ^{+0.030}	85 ^{+0.035}	90 ^{+0.035}	90 ^{+0.035}	100 ^{+0.035}	105 ^{+0.035}	110 ^{+0.035}	115 ^{+0.035}	120 ^{+0.035}	125 ^{+0.040}	130 ^{+0.040}	135 ^{+0.040}	140 ^{+0.040}	145 ^{+0.040}	155 ^{+0.040}
装配后内径公差 D _{i, a}	+0.225 +0.080	+0.230 +0.080						+0.235 +0.080						+0.240 +0.080							
间隙 C _D	0.264 0.080	0.269 0.080	0.276 0.080					0.281 0.080	0.289 0.080						0.303 0.080						
壁厚 S ₃	2.460 2.400																				
油孔 d _L	8							9.5													

注：长度B按客户需求制作

LTB-090/LTB-092系列青铜卷制轴承 Wrapped Bronze Bearing



产品简介 Introduction



LTB-090以特殊配方的高密度铜合金带材为基体，表面轧制菱形油穴或半球形的油穴，具有密度高，承载压力大，耐磨性能好，使用寿命长。产品被广泛应用于起重机械、建筑机械、机床工业、采矿机械等领域。

LTB-090 Bronze self-lubricating bearings used a kind of high density bronze alloy of special compositions as bronze, surface of alloy is rolled diamond type of the oil indents or half ball oil indents, this kind of bearing has higher density, load capacity, well wearing performance, longer lifetime. It has been widely used in many fields, such as hoist machines, building machinery, machine tool industry and mining machinery.

LTB-092以CuSn8为基体，工作表面布满有规则油孔，具有承载高、耐磨性能好、摩擦系数低。产品被广泛应用于输送机、升降机、卷扬机、农用机械等。

LTB-092 Bronze punch hole self-lubricating bearing used CuSn8 as base, designed regular oil holes bestrewn working surface, it has high load capacity, well wearing resistance and low friction coefficient, it has been widely applied to transportation machinery, machinery, elevator, coiling machinery and agriculture equipment.



性能指标 Performance index		数据 Date
最大承载 Max Load	静承载 Static	120N/mm ²
	动承载 Dynamic	40N/mm ²
最大线速度	Max. Speed	2.0m/s
最大PV值	Max PV Value Limit	2.8N/mm ² · m/s
摩擦系数	Friction coefficient	0.08~0.25
使用温度	Working Temp.	-100℃~+200℃
导热系数	Thermal conductivity	60W/(m · K) ⁻¹
热膨胀系数	Coef. of thermal expansion	15 · 10 ⁻⁶ · K

LTB-090/LTB-092 系列产品的优点

1. 节约大量铜材、节省车制铜套工时； 2. 与车制轴套、滚动轴承相比其重量轻、成本低； 3. 可在摩擦面加工出各种油穴、油孔、储存一定油脂，延长加油的时间是铜套的5倍； 4. 极高的承载能力，特别是适用于粗糙的摩擦面；
可供标准产品：直套、止推垫片、翻边 轴承。 可供非标准产品：直套、止推垫片、板材、轴瓦、滑板、组合件。

The advantages of LTB-090/LTB-092 series products are:

1. Saving large amount of bronze material and save the working hours normally spent for lathing the bronze bushing. 2. Compared with lathed bushings and roller bearings, it is lights and more cost-effective. 3. Various holes and dents can be made on the friction surface for grease storage, prolonging the lubrication interval to 5 times as long as required by the bronze bushing. 4. Extremely high load sustainability, especially suitable for coarse abrasion surfaces.

Standard products available: straight bushings, thrust plates and pressure bearings. Non-standard products available: straight bushings, thrust plates, planks, bearing bushings, slide plates and steel bushing assembly.

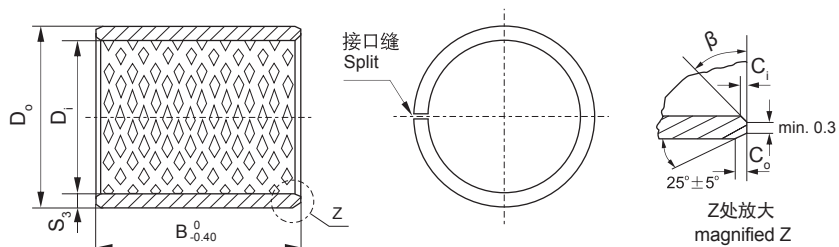
材料特性 Material Characterisite

材料 Material	化学成份 Chemice Composition			机械性能 Machine Performance		
	Cu %	Sn %	P %	抗拉强度 Tensile Strength	屈服强度 Yisld Point	延伸率 Elongation
CuSn8	Rest	7.0 ~ 9.0	0.03 ~ 0.45	450N/mm ²	250N/mm ²	40 %

标准衬套公差 Bushing Table

标准直径	外径公差	相配座孔 H7	安装内孔公差
10~18	+0.065 +0.030	+0.018 0	+0.043 0
18~30	+0.075 +0.035	+0.021 0	+0.052 0
30~50	+0.085 +0.045	+0.025 0	+0.062 0
50~80	+0.100 +0.055	+0.030 0	+0.074 0
80~120	+0.120 +0.070	+0.035 0	+0.087 0
120~180	+0.170 +0.100	+0.040 0	+0.100 0
180~250	+0.210 +0.130	+0.046 0	+0.115 0
250~315	+0.260 +0.170	+0.052 0	+0.130 0

LTB-090 青铜卷制轴承标准公制尺寸 Wrapped Bronze Bearing Standard Metric Sizes



ID and OD chamfers

S_3	C_o	C_i	β	S_3	C_o	C_i	β
1.00	0.6 ± 0.3	0.30 ± 0.2	$35^\circ \pm 5^\circ$	2.00	1.2 ± 0.4	0.50 ± 0.3	$30^\circ \pm 5^\circ$
1.50	0.7 ± 0.3	0.50 ± 0.3	$35^\circ \pm 5^\circ$	2.50	1.8 ± 0.6	0.60 ± 0.3	$45^\circ \pm 5^\circ$

单位unit:mm

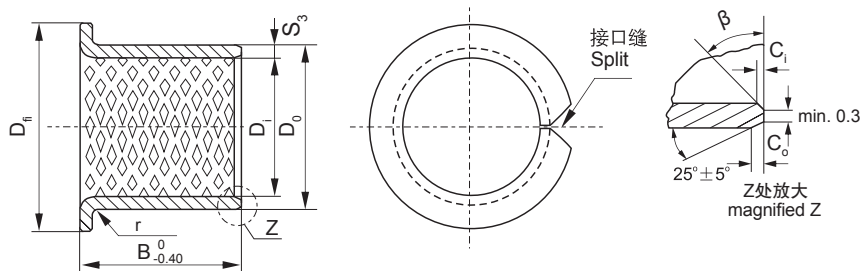
内径 D_i	10	12	14	15	16	18	20	22	24	25	28	30	32	35	40	45	50	55	60	65	70	75	80	85	90	95
外径 D_o	12	14	16	17	18	20	23	25	27	28	31	34	36	39	44	50	55	60	65	70	75	80	85	90	95	100

内径 D_i	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
外径 D_o	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180

内径 D_i	180	185	190	195	200	205	215	225	230	240	250	260	270	280	290	300
外径 D_o	185	190	195	200	205	210	220	230	235	245	255	265	275	285	295	305

注：长度B按客户需求制作

LTB-090F翻边标准尺寸 Metric Flange Bushes Sizes



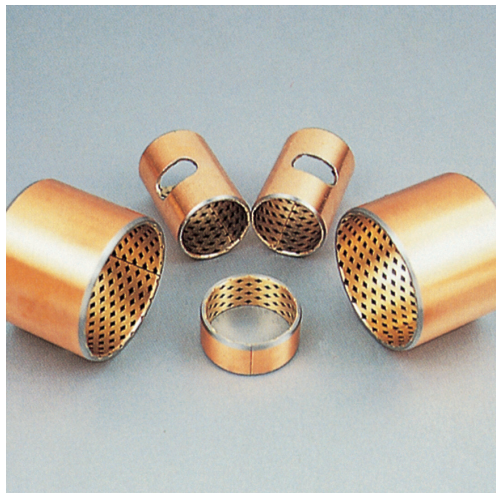
S_3	1.0	1.5	2.0	2.5
r	$1^{-0.5}$	1 ± 0.5	1.5 ± 0.5	2 ± 0.5

单位unit:mm

D_i	25	30	35	40	45	50	55	60	65	70	75	80	90	100	110	120	130	140	150	160	170	180	190	200	225	250	265	285	300
D_o	28	34	39	44	50	55	60	65	70	75	80	85	95	105	115	125	135	145	155	165	175	185	195	205	230	255	270	290	305
D_n	35	45	50	55	60	65	70	75	80	85	90	100	110	120	130	140	155	165	180	190	200	215	225	235	260	290	305	325	340

注：长度B按客户需求制作

LTB-08G固体润滑轴承 Solid Lubricant Bush



LTB-08G固体润滑轴承是以LTB-800双金属材料为基体，再埋入特殊固体润滑剂制作成的新型滑动轴承。由于高强度承载的合金材料作基体，并经过严格选择的高分子填充材料为耐磨剂，合理的螺旋角度菱形块状均布的润滑面，润滑面积达25%，因此，能发挥超群的低摩擦，良好的润滑性和抗磨损性。该产品已广泛应用于起重起、微型电机、升降机、吊车及冶金机械等行业。

LTB-08G is a kind of steel-lead bronze alloys based bearing. which is embedded with particular formulation of solid lubricants. Owing to the high strength, high load capacity and the spirally distributed diamond type of the embedded solid lubricant, the high temperature resistant action as extraordinary exploited. The lubrication area of the bearing surface is being about 25%. This type of bearing is particularly applied in starting motor for automobiles, generators cranes and those machines in metallurgical industry.

LTB-09G固体润滑轴承 Solid Lubricant Bush



与LTB-090具有相同的生产工艺及使用场合，其基体为青铜基板，在其菱形油穴内填充了以石墨为主的固体润滑剂，使产品在起始运用阶段及过程中能有更低的摩擦系数，在短时间断油的情况下仍能保持良好的工作状态。因此被广泛使用在工程机械、齿轮箱传动部件、汽机车离合器等高载中速部位。

The same produce process and application except overlay the solid lubricants into the diamond shaped lubrication indents on the bearing surface, which will offer good friction at the start and process works and keep good condition even no oil giving at short time. So can be used in construction machines, gears. automotive clutch parts etc.

FU含油轴承 Sintered Bronze



FU含油轴承是以锡青铜粉末或铁基粉末为原料，经过模具压制，在高温中烧结后整形而成。它的基体有细微、均布的孔隙，经润滑油真空浸渍后形成含油状态。该产品具有短期不加油润滑，使用成本低，内外径尺寸可变化等特点，适应于中速、低载荷的场所使用。产品已广泛应用于家用电机、电动工具、纺织机械、化工机械、汽车工业和办公设备等场合。

FU sintered bushing powder is mold pressed under high pressure and then sintered under high temperature, and oil is soaked into the homogeneously spreaded tiny pores of the metal under vacuum. Fu bearing can withstand dry condition in medium speed and low load for sometime. Moreover it is cheap and stable in dimension. This is widely used in domestic electric and electronic machines, electric tools, textile machines, chemical engineering machines, automobiles and official business machines.

JDB 系列镶嵌式固体润滑轴承 Soild-Lubaricant-inlaid Bearing



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

This material provides a maintenance-free bearing solution, particularly for high load, intermittent of oscillating motion. Solid lubricants within a bronze combines the strength of the bronze with the wear resistance and low friction. The application including automotive products line, water engineering, dam gate, plastic industries etc. Different bronze alloy type can be available according to the work condition.

最大承载 P Max Load Capacity	静承载 Static load	250N/mm ²
	动承载 Dynamic load	140N/mm ²
最大线速度 Max.Speed	干摩擦 Dry friction	0.3m/s
	油润滑 Oil lubrication	1.0m/s
最大PV值 Limit	Max PV Value	200N/mm ² · m/s
抗拉强度	Tensile strength	750N/mm ²
使用温度	Working temperature	-100℃~+300℃
摩擦系数	Friction coefficient	0.03~0.20
导热系数	Thermal conductivity	60W(m·K) ⁻¹
热膨胀系数	Coef. of thermal expansion	1.9*10 ⁻⁵ K ⁻¹
延伸率	Elongation	>12%
硬度	Hardness	HB>180
基体材质	Base material	CuZn24Al6

JDB 系列镶嵌式固体润滑轴承 Soild-Lubaricant-inlaid Bearing

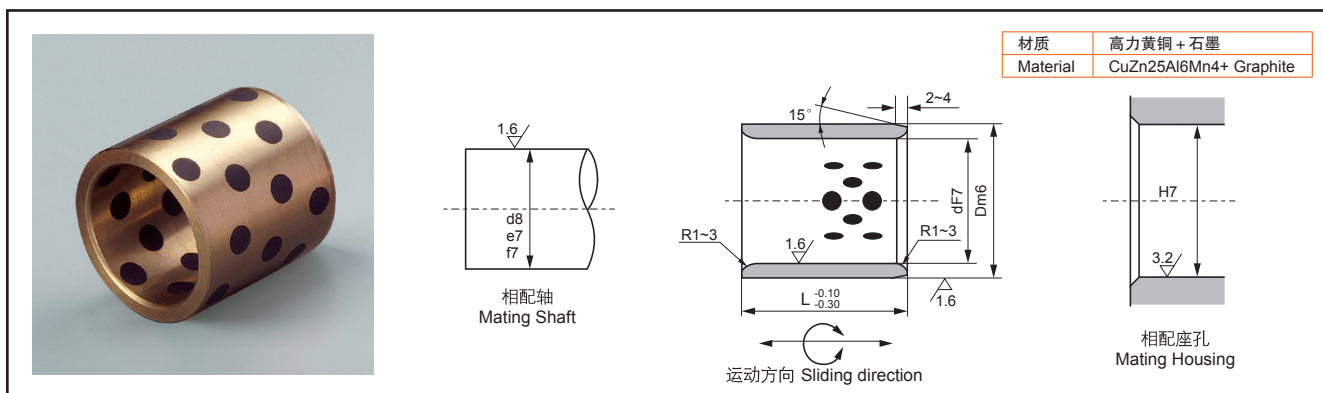


铸铁基镶嵌式固体润滑剂自润滑轴承，结合了铸铁的耐磨性及固体润滑剂的自润滑性能，使其在使用过程中无需或少加油维护。产品被广泛应用于高载、间歇性或摇摆运动，如汽车生产流水线、模具、塑胶机械等。

This material provides a maintenance-free bearing solution, particularly for high load, intermittent of oscillating motion. Solid lubricants within cast iron combines the high load with the wear resistance and low friction. The application including automotive products line, mold&die, plastic industries etc.

最大承载 P Max Load Capacity	静承载 Static load	70N/mm ²
	动承载 Dynamic load	10N/mm ²
最大线速度 Max.Speed	干摩擦 Dry friction	0.15m/s
	油润滑 Oil lubrication	1.0m/s
最大PV值 Limit	Max PV Value	0.8N/mm ² · m/s
抗拉强度	Tensile strength	150N/mm ²
使用温度	Working temperature	-40℃~+400℃
摩擦系数	Friction coefficient	0.08~0.20
硬度	Hardness	HB>160
基体材质	Base material	HT250

JDB 固体润滑轴承公制尺寸 Solid-Lubricant Bearing Standard Metric Sizes



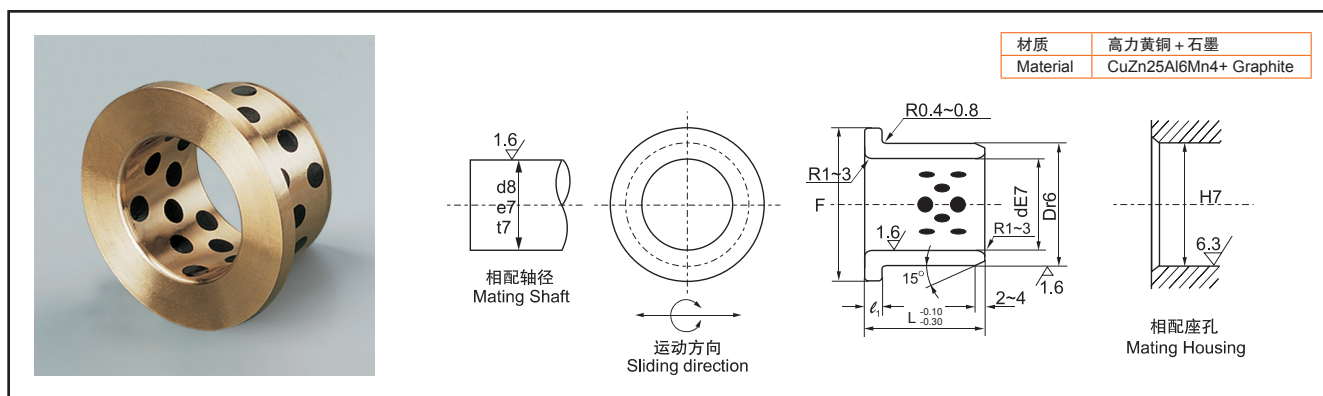
单位unit:mm

内径 dF7	8	10	12	13	14	15	16	18	20	22	25	30	35	40	45	50	50
	+0.028 +0.013				+0.034 +0.016						+0.041 +0.020				+0.050 +0.025		
外径 Dm6	12	14	18	19	20	21	22	24	28	32	33	38	45	50	55	60	62
		+0.018 +0.007				+0.021 +0.008						+0.025 +0.009				+0.030 +0.011	

内径 dF7	50	55	60	60	63	65	70	70	75	75	80	80	90	100	110	120	125	130	140	150	160
	+0.050 +0.025					+0.060 +0.030							+0.071 +0.036					+0.083 +0.043			
外径 Dm6	65	70	74	75	75	80	85	90	90	95	96	100	110	120	130	140	145	150	160	170	180
			+0.030 +0.011							+0.035 +0.013								+0.040 +0.015			

注：长度L按客户需求制作

JFB 铜基翻边镶嵌式固体润滑轴承 Cast Bronze Flanged Solid-lubricant inlaid bearing



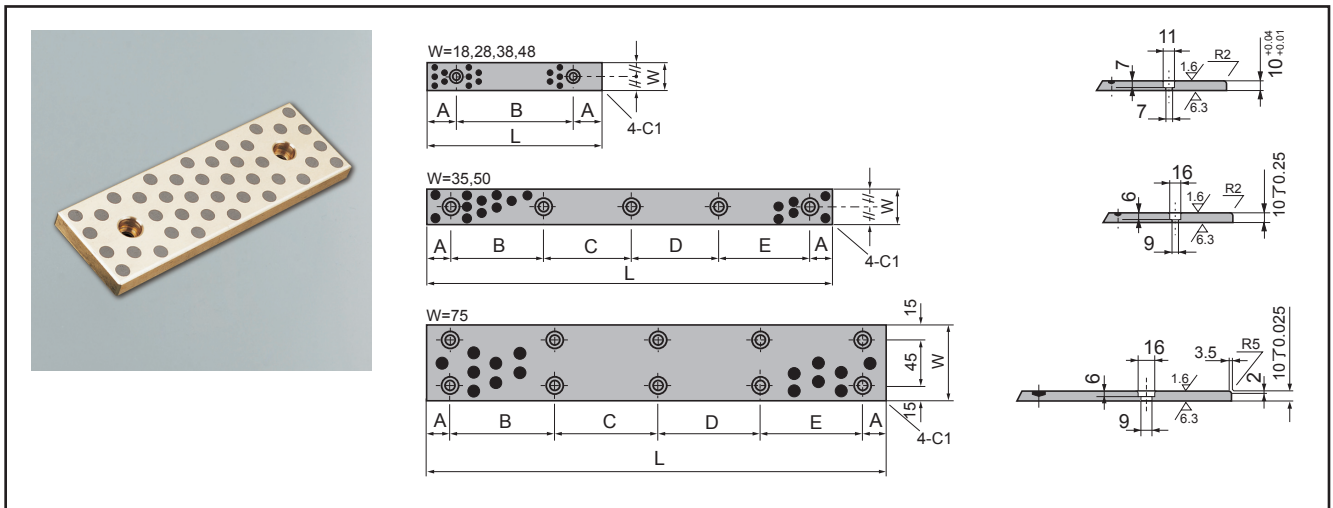
单位unit:mm

内径 d	10	12	13	14	15	16	20	25	30	31.5	35	40	45	50	55	60	63	70	75	80	90	100	120
外径 D	14	18	19	20	21	22	30	35	40	40	45	50	55	60	65	75	75	85	90	100	110	120	140
内径 IDE7	10	12	13	14	15	16	20	25	30	31.5	35	40	45	50	55	60	63	70	75	80	90	100	120
	+0.040 +0.025	+0.050 +0.032					+0.061 +0.040				+0.075 +0.050				+0.090 +0.060					+0.107 +0.072			
外径 ODr6	14	18	19	20	21	22	30	35	40	40	45	50	55	60	65	75	75	85	90	100	110	120	140
	+0.034 +0.023	+0.041 +0.028					+0.050 +0.034					+0.060 +0.041			+0.062 +0.043		+0.073 +0.051			+0.076 +0.054		+0.088 +0.063	
法兰尺寸 F	22	25	26	27	28	29	40	45	50		60	65	70	75	80	90	85	105	110	120	130	150	170
ℓ_1 -0.10	2	3					5									7.5			10				

注：长度L按客户需求制作

JSP 滑板标准尺寸

Normal Size For JSP Sliding Plate



单位unit:mm

型号	JSP-1875	JSP-18100	JSP-18125	JSP-18150	JSP-2875	JSP-28100	JSP-28125	JSP-28150	JSP-35100	JSP-35150	JSP-35200
W	18				28				35		
L	75	100	125	150	75	100	125	150	100	150	200
A	15	25			15	25			20		
B	45	50	75	100	45	50	75	100	60	55	55
C										55	50
D											55
E											
Flat Head Screw	M6								M8		
油孔	2									3	4

型号	JSP-35250	JSP-35300	JSP-35350	JSP-3875	JSP-38100	JSP-38125	JSP-38150	JSP-4875	JSP-48100	JSP-48125	JSP-48150
W	35			38				48			
L	250	300	350	75	100	125	150	75	100	125	150
A	20			15	25			15	25		
B	70	65	80	45	50	75	100	45	50	75	100
C	70	65	75								
D	70	65	75								
E		65	80								
Flat Head Screw	M8			M6							
油孔	4	5	5	2							

型号	JSP-50100	JSP-50150	JSP-50200	JSP-50250	JSP-50300	JSP-50400	JSP-75150	JSP-75200	JSP-75250	JSP-75300	JSP-75400	JSP-75500
W	50						75					
L	100	150	200	250	300	400	150	200	250	300	400	500
A	20											
B	60	55	55	70	65	90	110	80	105	85	120	115
C		55	50	70	65	90		80	105	90	120	115
D			55	70	65	90				85	120	115
E					65	90						115
Flat Head Screw	M8											
油孔	2	3	4	4	5	5	4	6	6	8	8	10

注：长度L按客户需求制作



通用外径检验方法 (ISO3547-2: 1999 Test B) :

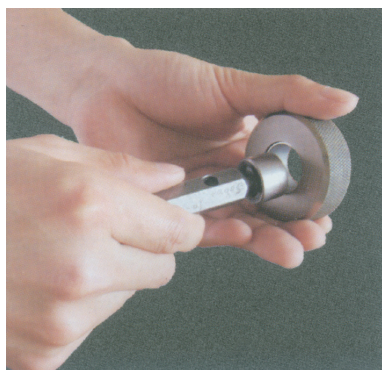
Common test method of outside diameter (ISO3547-2: 1999 Test B) :

轴套用手压入环规通端 (最大用力250N) , 通过

Press the bushes into the GO ring gauge and then push them through with hand pressure (maximum force 250N)

轴套用同样方法与同样力, 压入环规止端, 不通过

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



通用的内径检验方法 (ISO3547-2: 1999 Test C) :

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

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

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

(注意: 当轴承压入检验模, 轴承外径可能会被永久减小)

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

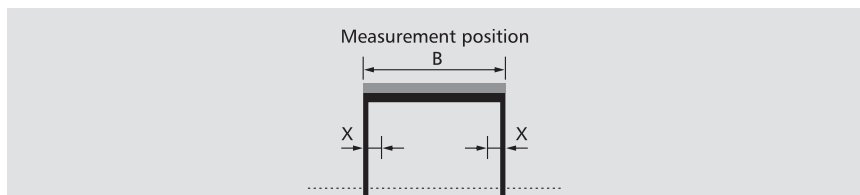


通用的壁厚测量方法:

Common methed of wall thickness measurement:

轴承的壁厚测量一点、二点、三点, 在轴向上依据轴承高度尺寸

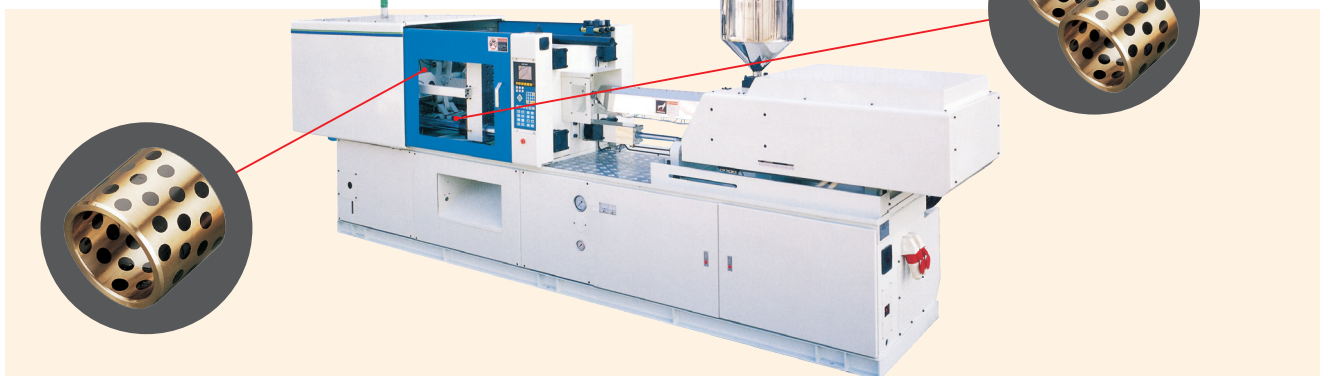
The wall thickness is measured at one, two or three positions axially according to the bearing dimensions.



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

◎ 主要应用例举 Typical Application

◎ 成型机械注塑机、橡胶机械、压铸机 Injection Machine, Rubber Machine, Die-Casting Machines

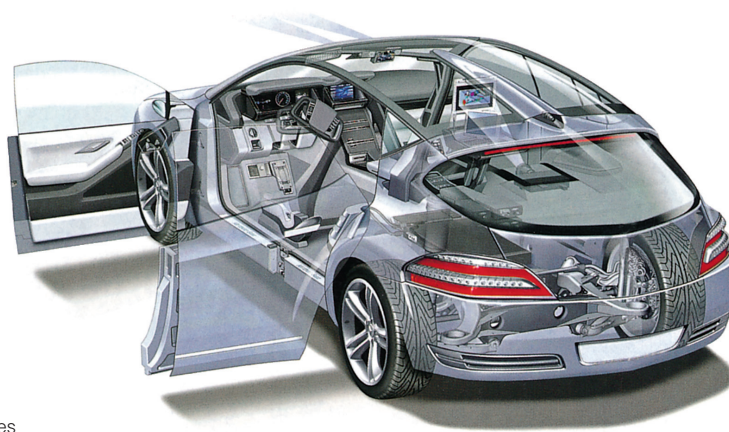


◎ 建筑机械 推土机、挖掘机、铲土机、起重机、搅拌机 Construction Machine Bulldozer, Grab, Scraper, Crane



◎ 汽车上的运用 For automotive Industry

- | | |
|----------------|---|
| 1. 油门、制动、离合器踏板 | Bushes for accelerator, brake, clutch pedal |
| 2. 反光镜调节机构 | Bushes for reflector control |
| 3. 雨刮器中 | Bushes for windscreen wipers |
| 4. 玻璃窗提升机构中 | Bushes for windscreen lift system |
| 5. 天窗机构中 | Bushes for roof window system |
| 6. 操纵杆 | Bushes for gear lever |
| 7. 车门铰链中 | Bushes for door hinges |
| 8. 车门锁中 | Bushes for door lock |
| 9. 安全带张紧机构中 | Bushes for seat belt system |
| 10. 引擎轴套 | Bushes for engineer |
| 11. 启动电机轴套 | Bushes for starter motor |
| 12. 座椅调节机构 | Bushes for chair control |
| 13. 减震器中 | Bushes for shock absorbers |
| 14. 汽化器中 | Bushes for carburetor |
| 15. 行李箱、引擎盖铰链中 | Bushes for trunk and bonnet hinges |
| 16. 横直拉杆及球头中 | Bushes for suspension ball joint |





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