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双金属轴承
Bimetal Bushings

青铜卷制轴承
Warpped Bronze Bearing

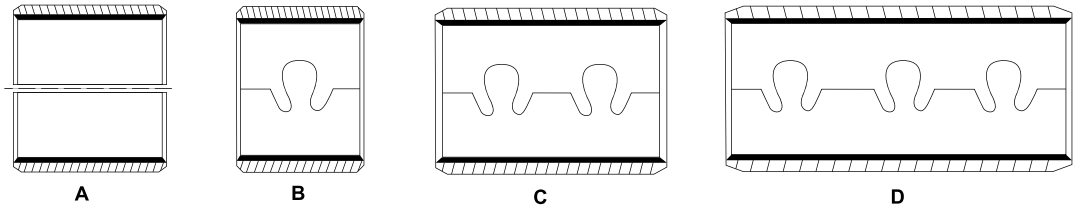
5620

Bimetallic Self-lubricating Bushes
双金属自润滑轴套

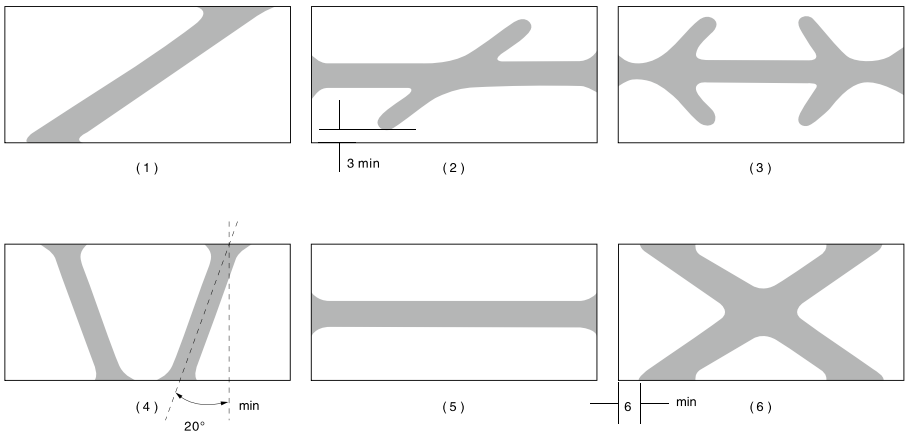
5620 Bimetallic self-lubricating bearing used high quality low-carbon steel plate as base, sintered porous bronze as its surface, suitable for rotatory oscillating, reciprocating movements on the conditions of high load.low speed, low friction, well wear resistance, long lifetime and better prevent from holding-on.The bronze layer surface can be machined with various of grooves, oil pockets in terms of different work condition. The product is widely used in mining machinery, automobile, building machinery, agriculture equipment, rolling steel industry etc.

5620系列双金属轴套、轴瓦、止推垫片，以优质低碳钢为基体，表面烧结青铜粉，适用于高载低速下的旋转，摇摆运动。具有摩擦系数低、耐磨性能好、使用寿命长、抗咬合性能好等特点，铜合金层可根据要求加工出各种类型的油穴、油槽。产品被广泛应用于矿山机械、汽机车、建筑机械、农用机械、轧钢机械等。

卷制轴承搭口形式
Material Characterisitc



双金属自润滑轴承的油槽形状
Bi-metal self lubricating bearings tank shape



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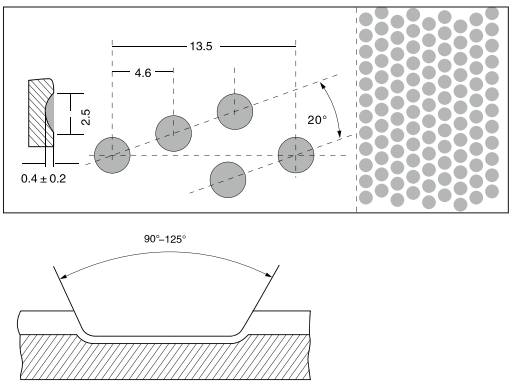
Bimetallic Self-lubricating Bushes
双金属自润滑轴套



技术参数 Technical Data

项目 Project / 型号 Type		5620	5622
国际标准 International Standard		SAE-797. DIN CuPb10Sn. JIS-LBC3. UNS C93700. Clevite F100. Daido L10. D. A. B. D57. Federal Mogul HF2. Glacier SY. Glyco66. Miba2. 1010.Taiho HF2. Kar l Schmiat KS940SSAE-797. DIN CuPb10Sn. JIS-LBC3. UNS C93700. Clevite F100. Daido L10. D. A. B D57. Federal Mogul HF2 Glacier SY. Glyco66. Miba2. 1010. Taiho HF2. Karl Schmiat Ks940s	SAE=799. GLYCO 68. JIS-LBC6. DAIDO L23. Claciersx. ACLF250
合金成份 Alloy Composition		CuPb10Sn10	CuPb24Sn4
合金硬度 Alloy Hardness		70～100HB	45～70HB
最大承载 P (N/mm^2) Max Load Capacity		150	130
拉伸强度（N/mm^2） Tensile Strength		185	150
最大线速度（油润滑）V(m/s) Max Sliding Speed (Oil Lubrication)		5	10
摩擦系数μ Friction coefficient		0.05～0.20	0.06～0.16
最高PV值 $N/mm^2 \cdot m/s$ Max PV Value Limit	脂润滑 Grease lubrication	2.8	2.8
	油润滑 Oil lubrication	10	10
适用条件 Using Conditions		很高的耐疲劳强度和承载能力，抗冲击能力强，耐磨性、耐腐蚀性好 High resistance to fatigue strenth and load capacity, with high shock resistance good wearing and good corrosion resisitance.	较高的耐疲劳强度和承载能力、较好的滑动性能，易受润滑油腐蚀 Good resistance to fatigue strength and high load capacity,good performance of sliding, liable to be corrupted by lubricationg oil.
适用场合 Use Occasions		中速、高冲击载荷的衬套，内燃机连杆活塞销衬套 Fit for middle load, high speed, bushes,washer and connecting rod bearing in internal combustion engine used in machinical equipment and high shock bushing.	中载中速、高速内燃机主轴套和连杆轴套 middle load middle speed, principle axis of internal combustion engine.

5621 Solid-lubricant Bushes 固体润滑轴套

5622 Bimetal Bearing 双金属轴承

Standard Size:
Stright Bearing , Flange Bearing .

Non-Standard Size:
Stright Bearing, Flange Bearing, Thrust washer, Strip, Bearing bushing, Wear strips,

Steel combine units.

可供标准产品:
直套，翻边轴套。

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。

5621 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 inmetallurgical industry.

5621固体润滑轴承是以5620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耗性免除加油。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。

Technical Data 技术参数

最大承载 Max.load	静承载 Static	150N/mm^2
	动承载 Dynamic	40N/mm^2
最大PV值（干摩擦） Max. PV (dry running)		2.8N/mm^2·m/s
使用温度 Temp. limit		-100°C~+200°C
摩擦系数 Friction coefficient		0.06~0.25μ
最大线速度 Max. speed	脂润滑 Grease Lubrication	1.5m/s
导热系数 Thermal conductivity		58W(m·k)$^{-1}$
线胀系数 Coefficient of thermal expansion		18×10^{-6}·K^{-1}
硬度 Hardness		HB110-150
抗拉强度 Tensile strength		450N/mm^2
伸长 Elongation		40%

Standard Size:
Stright Bearing , Flange Bearing .

Non-Standard Size:
Stright Bearing, Flange Bearing, Thrust washer, Strip, Bearing bushing, Wear strips,

Steel combine units.

可供标准产品:
直套，翻边轴套。

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。

5622 is a bimetal bearing with steel as backing and sintered CuPb24Sn24 as lining layer. This type has fairly good performance in anti-fatigue and load capacity. It is suitable for middle speed and middle load. When over plated certain soft alloy, it can be applied in high-speed internal combustion engine and as connect rod.

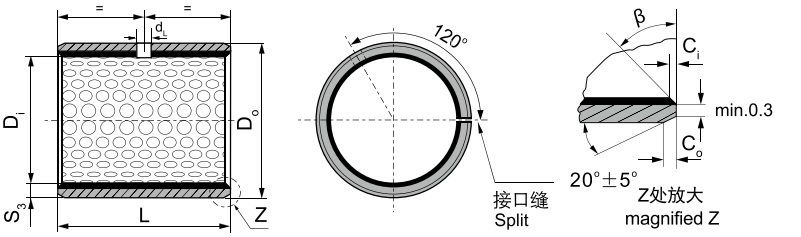
5622双金属轴承，是以钢板为基体,表面烧结CuPb24Sn4材料的产品。该产品具有较好的疲劳强度和承载能力。适用于中速中载，有油润滑的场合表面镀软合金时，可用作高速内燃机轴承、连杆衬套，达到良好的耐磨、耐疲劳效果。

Technical Data 技术参数

最大承载 Max.load		130N/mm^2
允许最大PV值 PV Limit V max(oil)	脂 Greses	2.8N/mm^2·m/s
	油 Oil	10N/mm^2·m/s
最高使用温度 Temperature Max		170°C
摩擦系数 Friction coefficient		0.06~0.16μ
最大线速度 Max. speed	油 Oil	10m/s
合金层硬度 Liner hardness		HB45~70
抗拉强度 Tensile strength		150N/mm^2

5620
5621
5622

Bimetal Sleeve Bushing Specification & Tolerance
双金属轴承规格及公差



内外倒角 ID and OD chamfers

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

S_3	C_o	C_i	β
2.00	1.2±0.4	0.50±0.3	35°±5°
2.50	1.8±0.6	0.60±0.3	45°±5°

单位unit:mm

5620 Bimetal Sleeve Bushing Specification & Tolerance
5620 双金属轴承规格及公差

内径 D_i ϕd	10	12	14	15	16	18	20	22	14	15	16	18	30	32	35	38	40	
外径 D_O ϕD	12	14	16	17	18	20	23	25	27	28	30	32	34	36	39	42	44	
轴径(h8) Shaft D_s	10	12	14	15	16	18	20	22	14	15	16	18	30	32	35	38	40	
	-0.000 -0.022			-0.000 -0.027						-0.000 -0.033					-0.000 -0.039			
座孔(H7) Housing D_H	12	14	16	17	18	20	23	25	27	28	30	32	34	36	39	42	44	
			+0.018 +0.000					+0.021 +0.000						+0.025 +0.000				
压装后 内孔公差 Arter fixed $D_{i,a}$			+0.148 +0.010					+0.161 +0.020						+0.185 +0.040				
壁厚 Wall thickness S_3			1.0 -0.005 -0.065					1.5 -0.010 -0.070						2.0 -0.020 -0.080				
配合间隙 Clearance C_D	0.170 0.010			0.175 0.010				0.194 0.020				0.218 0.040			0.224 0.040			
油孔 Oil hole d_L				4						6						8		
10	●	●	●	●	●	●	●	●	●									
15	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
25						●	●	●	●	●	●	●	●	●	●	●	●	
30									●	●	●	●	●	●	●	●	●	
40												●	●	●	●	●	●	
50															●	●	●	

Bimetal Sleeve Bushing Specification & Tolerance
双金属轴承规格及公差

HDB

5620 Bimetal Sleeve Bushing Specification & Tolerance
5620 双金属轴承规格及公差

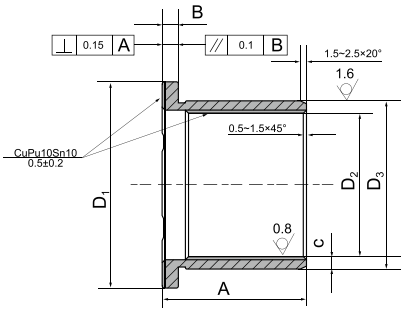
内径 D_i φd	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	150
外径 D_O φD	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	155
轴径(h8) Shaft D_s	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	150
	-0.000 -0.039			-0.000 -0.046				-0.000 -0.054									-0.000 -0.063				
座孔(H7) Housing D_H	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	155
	+0.025 +0.000			+0.030 +0.000				+0.035 +0.000									+0.040 +0.000				
压装后内孔公差 Arter fixed $D_{i,a}$	+0.225 +0.080			+0.230 +0.080				+0.235 +0.080									+0.240 +0.080				
壁厚 Wall thickness S_3	2.5 -0.040 -0.100																				
配合间隙 Clearance C_D	0.264 0.080	0.269 0.080	0.276 0.080					0.281 0.080	0.281 0.080								0.303 0.080				
油孔 Oil hole d_L	8							9.5													
25	●																				
30	●	●	●	●	●	●	●	●	●												
40	●	●	●	●	●	●	●	●	●	●											
50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
60		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
80						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
90								●	●	●	●	●	●	●	●	●	●	●	●	●	●
100									●	●	●	●	●	●	●	●	●	●	●	●	●

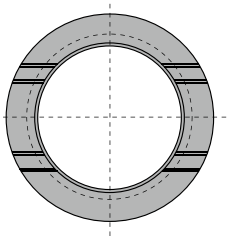
Order 订购

Catalog No. 目录号	.	D_i	.	D_O	.	L
5620	.	020	.	023	.	020
5621	.	020	.	023	.	020
5622	.	020	.	023	.	020

5640

Bimetal Flange Bushing Specification & Tolerance
双金属翻边轴承规格及公差





单位unit:mm

5640 Bimetal Flange Bushing Specification & Tolerance 5640 双金属翻边轴承规格及公差																								
D_1	42	43	44	47	48	52	55	55	55	60	60	63	65	68	70	70	72	72	75	77	83	85	87	87
B	3.5	2	3.5	3.5	2	3	3.5	3.5	3.5	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3	3.5	3.5	3.5	3.5
D_3	37	34	39	39	39	41	42	45	45	41	46	47	52	54	54	57	57	57	57	60	66	65	67	67
D_2	30	30	32	32	35	35	35	38	38	35	40	40	45	47	47	50	50	50	50	54	59	58	60	60
A	30	28	35	50	37	35	35	35	40	42	62	40	40	35	40	48	45	50	50	55	53	60	53	60
C	3.5	2	3.5	3.5	2	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3	3.5	3.5	3.5	3.5

单位unit:mm

5640 Bimetal Flange Bushing Specification & Tolerance 5640 双金属翻边轴承规格及公差																								
D_1	87	87	94	87	87.5	88	88	92	93	94	95	95	97	97	100	103	105	105	107	115	128	108	108	108
B	3.5	4	3.5	3.5	1.95	3.5	3.5	3.5	3.5	3.5	3.5	4	3.48	3.5	5	3.525	3.5	3.5	4	5	3.8	3.5	3.5	5
D_3	67	68	72	72	69.12	67	72	77	75	77	77	78	77.14	82	85	70.8	82	87	83	100	92.6	72	77	80
D_2	60	60	65	65	65.22	60	65	70	68	70	70	70	70.18	75	75	63.75	75	80	75	90	85	65	70	70
A	65	60	60	65	64.5	60	65	67	60	70	65	70	62	74	70	73	75	70	74	75	103	75	98	90
C	3.5	4	3.5	3.5	2	3.5	3.5	3.5	3.5	3.5	3.5	4	3.5	3.5	5	3.5	3.5	3.5	4	5	4	3.5	3.5	5

Order 订购

Catalog No. 目录号	.	D_2	.	A
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