CHENHAN

嘉善晨瀚滑动轴承有限公司
Jiashan Chenhan Sliding Bearings Co., Ltd.

自润滑和免维护滑动轴承
Self-Lubricating and Maintenance Free Sliding Bearings

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Jiashan Chenhan Sliding Bearings Co., Ltd.

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进程
DEVELOPMENT

我们正在经历一个科技迅猛发展的时代,
我们有幸作为其中一份子参与见证
… …

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公司简介 /Company Profile

嘉善晨瀚滑动轴承有限公司是生产滑动轴承,自润滑轴承,铜套,无油铜套,自润滑铜套,自润滑铜滑板,无油润滑轴承,复合衬套,双金属轴承的专业型厂家。

公司坐落于全国最大的滑动轴承生产基地 —— 浙江嘉善,我公司生产的产品主要销往全国各大城市及港澳台地区,部分产品远销至非洲、欧洲、南美各国。

公司拥有过硬的技术实力和先进的生产设备及工艺,累积多年的滑动轴承制造经验,承接滑动轴承的设计、制造及售后服务。全套的优质服务保证了产品经久耐用、安全可靠的精良品质。产品被广泛应用于工程机械、海洋设备、水利工程、航空航天、铁路等领域。

经过不断的努力和学习,引进国内外先进的技术和高精密设备,使我们的产品质量不断提高。

质量第一,信誉第一是公司的宗旨,以质量是企业的生命为核心价值观。用户的需求就是我们的追求,我们愿与国内外朋友精诚合作,共同发展!以每天进步一点点的精神服务于社会,服务于大众。

Jiashan Chenhan Sliding Bearings Co., Ltd. is a professional manufacturer that specializes in production of sliding bearings, self–lubricating bearings, copper bushes, oilless copper bushes, self–lubricating copper bushes, self–lubricating copper sliding plates, oilless lubricating bearings, composite bushings and bimetallic bearings.

Our company is located in Jiashan of Zhejiang Province, the largest sliding bearings production base nationwide. Products are mainly sold to major cities all over the country as well as Hong Kong and Macao. Partial products have been exported to Africa, Europe and South America.

With strong technical strength, advanced production equipment and technology, our company has accumulated many years of experience in producing sliding bearings to be involved in design, manufacture and after sales service of sliding bearings. Good quality whole–process service ensures product durability and safe reliable quality. Products have been widely applied to such fields as engineering machinery, marine equipment, water conservancy projects, aviation/aerospace and railways etc.

Our product quality has been improved continuously through continuous hard work and studying to introduce advanced technology and high–precision equipment from at home and abroad.

"Quality first, credit foremost" is our tenet and the core values of regarding quality as enterprise lifeline is adhered to by our company. It' s our eternal pursuit to satisfy users' demands. We are willing to cooperate sincerely with domestic and overseas friends for common progress so as to serve the society and people in the spirit of a little bit of progress every day!

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CHENHAN
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CHB-600 油沟铜衬套
Oil groove copper bushing

材料选择/Material selection

材料选择/Material selection

成分及物理性能 Composition and physical properties	材料牌号 Material					
	CHB-600	CHB-601	CHB-602	CHB-603	CHB-604	CHB-605
	ZCuZn25Al6Fe3Mn3	ZCuSn5Pb5Zn5	ZCuSn6Zn6Pb3	ZCuSn10P1	ZCuPb10Sn10	ZCuAl9Fe4Ni4Mn2
Cu	余量	余量	余量	余量	余量	余量
Zn	25	4.0–6.0	4.0–7.0			
Sn	0.2	4.0–6.0	4.0–7.0	9.0–11.5	9.0–11.0	
Pb	0.2	4.0–6.0	2.0–4.0		8.0–11.0	0.2
Al	4.5–7.0				0.01	8.5–10
Fe	2.0–4.0				0.25	4.0–5.0
Mn	1.5–4.0				0.2	0.8–2.5
P				0.5–1.0	0.05	
Ni					2	4.0–5.0
抗拉强度 Tensile strength (MPa)	750	220	230	360	≤220	≤630
屈服强度 Yield point (MPa)	400	100	110	170	≤140	≤250
伸长率 Elongation (%)	10	13		6	≥5	≥16
硬度 Hardness (HB)	210–270	60–80	60–80	88	65	150
密度 Density	8	8.7	8.5	8.7	8.9	7.6
线膨胀率 Line expansion α/10–6℃–1	19.8	19.1	19.5	18.5	19.2	20
导热率 Thermal conductivity W/(M ℃)	50	56	55	50	45	71
摩擦系数 Friction factor — 有润滑剂 Lubricant	0.12	0.01	0.02	0.08	0.005	0.01
摩擦系数 Friction factor — 无润 滑剂 No Lubricants		0.16	0.2	0.1	0.1	0.18
耐蚀性 (质量损失) /[g/(m² • 24h) — 在10%酸中 In 10% of the acid	1.46	4.9	4.9	4.9	0.14	0.14
耐蚀性 (质量损失) /[g/(m² • 24h) — 在海水中 In seawater		0.67	0.67	0.67	0.92	0.92

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CHB-600 油沟铜衬套
Oil groove copper bushing

材料组织/Structure

精加工铜合金轴套提供了简单、经济的轴承运用方式，具有承载高，耐腐蚀性好，尺寸加工任意性等特点。同时可以根据不同的使用情况提供不同牌号的铜合金，并按照要求加工出不同的形式，它比卷制类铜轴承具有更高尺寸精度。

Refined copper alloy bushing provides a simple and economic way of bearing use, has high bearing, good corrosion resistance, processing arbitrary size, etc.At the same time can be used according to different situation provide different grades of copper alloy,and work out different forms in accordance with therequirements, rolled copper bearing is higher than that in its dimension precision.

铸造铜合金主要特性和应用举例（GB/T1176–1987）		
合金牌号	主要特性	应用举例
ZCuZn25Al6Fe3Mn3	有很高的力学性能，铸造性能良好，承载性能及耐蚀性较好。有一定的抗疲劳和耐 磨性。	适用高强、耐磨零件，如桥梁支承板、螺母、螺杆、耐磨板、滑块和蜗轮等，一般用途的结构件、船舶、仪表等使用的外型简单铸件，如套筒、衬套、轴瓦、滑块等
ZCuSn6Zn6Pb3	耐磨性较好，易加工，铸造性能好，气密性较好、耐腐蚀，可在流动海水下工作。	结构材料，耐蚀、耐酸的配件以及破碎机衬套、轴瓦，耐磨性和耐蚀性好，易加工，铸造性能和气密性较好,在一般负荷，中等滑动速度下工作的耐磨耐腐蚀零件，如透平机、电动机、压缩机、活塞离合器、连杆衬套、摇臂衬套。
ZCuPb10Sn10	润滑性能、耐磨性能和耐蚀性能好，适合用作双金属铸造材料	表面压力高，又存在侧压力的滑动轴承，如轧辗、车辆用轴承、负荷峰值60MPa的受冲击的零件，以及最高峰值达100MPa的内燃机双金属轴瓦，以及活塞销套、摩擦片等
ZCuAl9Fe4Ni4Mn2	有很高的力学性能，在大气、淡水和海水中耐磨性好，铸造性能好，组织致密，气密性高，耐磨性好，不易钎焊，铸造性能尚好。	要求强度高，耐蚀性好的重要铸件，是制造船舶螺旋桨的主要材料之一，也可用做耐磨和400℃以下工作的零件，如轴承、齿轮、蜗轮，螺帽、法兰、阀体，导向套管
ZCuSn10P1	硬度高，耐磨性极好，不易产生咬死现象，有较好的铸造性能和切削加工性能，在大气和淡水中有良好的耐蚀性。	可用于高负荷（20MPa以下）和高滑动速度（8m/s）下工作的耐磨零件，如连杆、衬套、轴瓦、齿轮、蜗轮等
ZCuSn5Pb5Zn5	耐磨性和耐蚀性好，易加工，铸造性能和气密性较好。	在较高负荷，中等滑动速度下工作的耐磨耐腐蚀零件，如轴瓦、衬套、缸套、活塞离合器、泵件压盖以及蜗轮等

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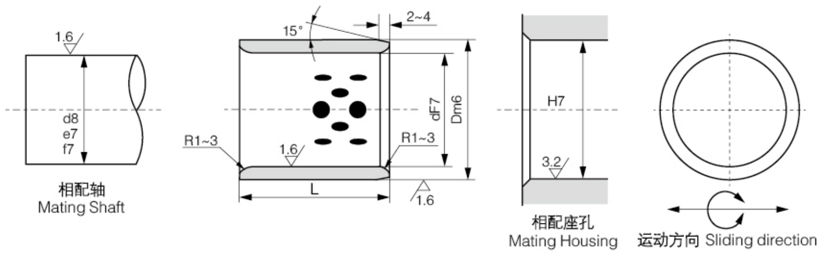
CHB-JDB 铜基固体镶嵌式自润滑轴承
Bronze Solid Enchase Self-lubricating Bearing

d8:高负荷用
e7:轻负荷用
f7:高精度用

材质	高力黄铜＋石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite



材料牌号Geade	ZCuZn25AL6Fe3Mn3	线膨胀系数 Coefficient of linear expansion	1.9x10-5/℃
密度 Densitty	8.2	使用温度（℃） Max.temp	-40~+300
硬度（HB）Hardness	≥210	最大动载荷(N/mm²) Max.load	100
抗拉强度（N/mm²） Tensile strength	＞750	摩擦系数 Coefficient of friction	＜0.16
屈服强度（N/mm²） Yield strength	＞450	最大PV值（润滑） Max.PV(N/mm²*m/min)	200
延伸率(%) Elongation	8	永久压缩变形量 Compression deformation (300N/mm²)	＜0.01mm
最大线速度 The largest wire speed — 干 dry / 油 oil	0.5m/s / 2m/s	最大PV值 The largest PV value. — 无油 Without oil / 油 oil	1.65N/mm²・m/s / 3.25N/mm²・m/s

单位unit:mm

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

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CHB-JDB 铜基固体镶嵌式自润滑轴承
Bronze Solid Enchase Self-lubricating Bearing

单位unit:mm

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

Catalog No. — d — D — L
CHB-JDB — 08 — 12 — 08

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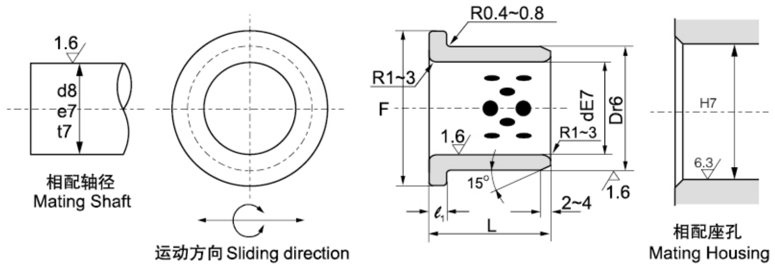
CHB-JFB 自润滑翻边轴套
Self Lubricating Flanging Bushing

d8:高负荷用
e7:轻负荷用
f7:高精度用
g6:高精度用间歇运转

材质	高力黄铜＋石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite



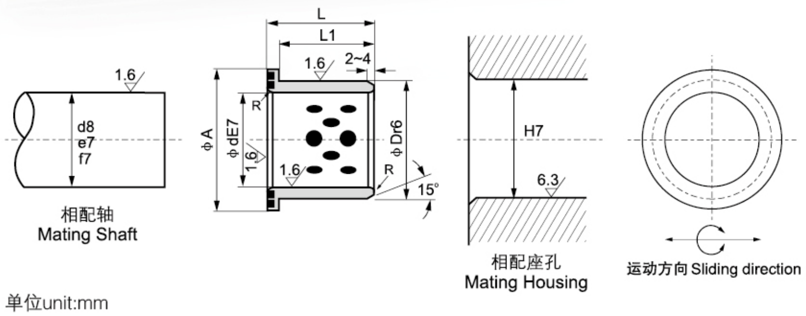
单位unit:mm

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

Catalog No. — d — L — F
CHB-JFB — 10 — 15 — F

CHB-JDBB 自润滑翻边轴套
Oilless Flange Bushing

材质	高力黄铜＋石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite

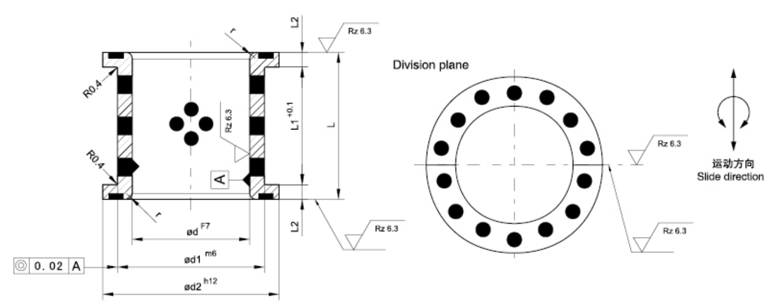


单位unit:mm

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

Catalog No. — d — L
CHB-JDBB — 12 — 15

CHB-JZW 自润滑轴瓦
Oilless Bearing Bush



单位unit:mm

d	L	d1	d2	L1	L2	r
20	28	28	35	20	4	1
25	33	33	40	25		
30	40	38	48	30		
40	50	50	60	40	5	2
50	60	62	68	50		

Catalog No. — d — L
CHB-JZW —20 —28

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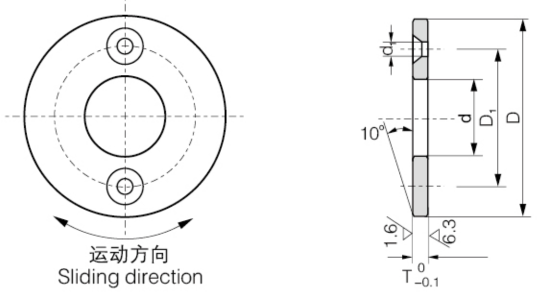
CHB-JTW 自润滑止推垫片 Oilless Thrust Washer

材质	高力黄铜＋石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite



单位unit:mm

规格 Standard No.	d	D	T^{0}_{-01}	螺栓 Bolt D_1	螺栓 Bolt 数量 Q'ty	螺栓 Bolt 尺寸 size	螺栓 Bolt d_1
JTW-10	10.2	30		---	---	---	---
JTW-12	12.2						
JTW-13	13.2	40		28			
JTW-14	14.2		3		2	M3	3.5
JTW-15	15.2			35			
JTW-16	16.2						
JTW-16N		50		---	---	---	---
JTW-18	18.2			35	2	M3	3.5
JTW-20	20.2					M5	6
JTW-20N				---	---	---	---
JTW-25	25.2	55	5	40	2	M5	6
JTW-25N				---	---	---	---
JTW-30	30.2	60		45		M5	6
JTW-35	35.2	70		50	2		
JTW-40	40.2	80	7	60			
JTW-45	45.3	90		67.5		M6	7
JTW-50	50.3	100		75			
JTW-55	55.3	110	8	85			
JTW-60	60.3	120		90			
JTW-65	65.3	125		95			
JTW-70	70.3	130		100	4	M8	9
JTW-75	75.3	140		110			
JTW-80	80.3	150	10	120			
JTW-90	90.5	170		140			
JTW-100	100.5	190		160		M10	11
JTW-120	120.5	200		175			

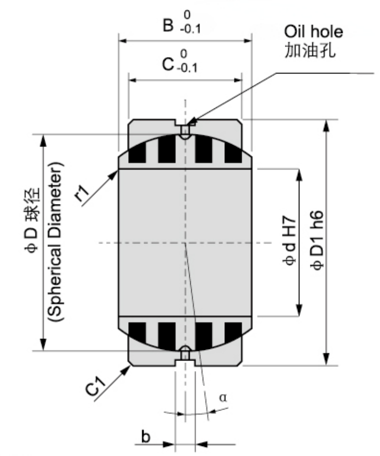
Catalog No. — d — D
CHB-JTW —10.2— 30

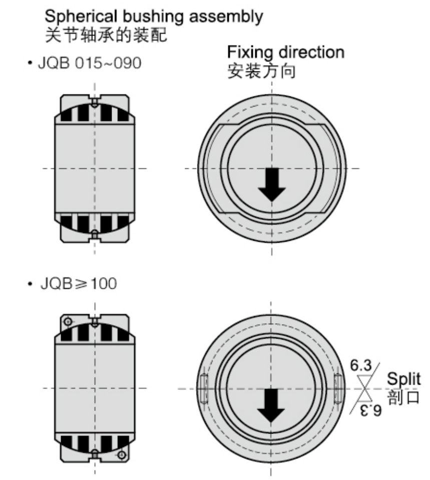
电话 (Tel)：0573-84573310 传真 (Fax)：0573-84673310

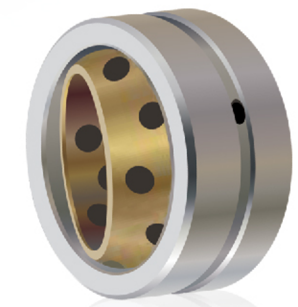
CHB-JQB 自润滑关节轴承 Sphere Oscillating Bearing

Inner ring内圈	Material材料	650# + Gr/石墨
Outer ring外圈	Material	S45C
	Hardness硬度	HRC25～30

Recommend shaft & housing: 推荐轴和座孔公差
Housing: H7 座孔
Shaft: g6 轴







单位unit:mm

Standard No. 型号规格	d	H7	D1	h6	B	C	D	b	Alignment Angle α° 调整角度	Allowable Radial Load (kN) 径向承载	Allowable Thrust Load (kN) 轴向载荷
JQB-015	15	$^{+0.018}_{0}$	26	$^{0}_{-0.013}$	12	9	22		8	6.5	0.5
JQB-020	20		32		16	14	28		4	12.6	1.4
JQB-025	25	$^{+0.021}_{0}$	42	$^{0}_{-0.016}$	21	18	36		5	21.8	2.5
JQB-030	30		50		27	23	44		6	32.0	3.5
JQB-035	35		55		30	26	49		5	43.7	4.8
JQB-040	40	$^{+0.025}_{0}$	62	$^{0}_{-0.019}$	33	28	55	4	6	54.7	5.7
JQB-045	45		72		36	31	62		5	69.7	7.2
JQB-050	50		80		42	36	70			92.4	10
JQB-060	60		100		53	45	90		6	143	16
JQB-070	70	$^{+0.030}_{0}$	110	$^{0}_{-0.022}$	58	50	99		5	181	20
JQB-080	80		130		70	60	115			254	30
JQB-090	90		140		76	65	125		6	313	36
JQB-100	100	$^{+0.035}_{0}$	160	$^{0}_{-0.025}$	88	75	145			544	64
JQB-110	110		170		93	80	155		5	642	73
JQB-120	120		190		105	90	170		6	797	94
JQB-130	130		200		110	95	180		5	880	105
JQB-140	140		210	$^{0}_{-0.029}$	90	70	180	6	7	668	56
JQB-150	150	$^{+0.040}_{0}$	220		120	105	200		5	1135	129
JQB-160	160		230		105	80	200		8	891	73
JQB-180	180		260	$^{0}_{-0.032}$	105	80	225		6	1002	74
JQB-200	200		290		130	100	250		7	1434	117
JQB-220	220	$^{+0.046}_{0}$	320		135	100	275		8	1577	118
JQB-240	240		340	$^{0}_{-0.036}$	140	100	300			1720	118
JQB-260	260		370		150	110	325	9	7	2075	143
JQB-280	280	$^{+0.052}_{0}$	400		155	120	350		6	2455	172
JQB-300	300		430	$^{0}_{-0.040}$	165	120	375		7	2630	172

Catalog No. — d — D
CHB-JQB — 15 — 22

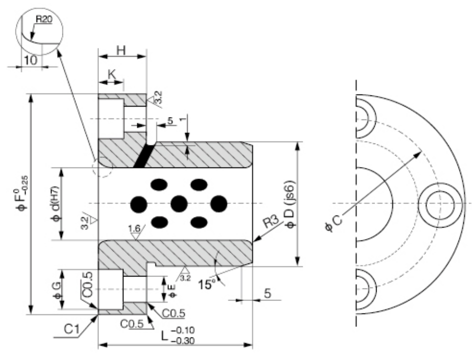
电话 (Tel)：0573-84573310 传真 (Fax)：0573-84673310

www.ch-bearing.com

CHB-HGB250 法兰固定导套
Flange fixed guide bush

材质	高力黄铜＋石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite

材质	FC铸铁＋石墨
Material	HT250#+ Graphite



单位unit:mm

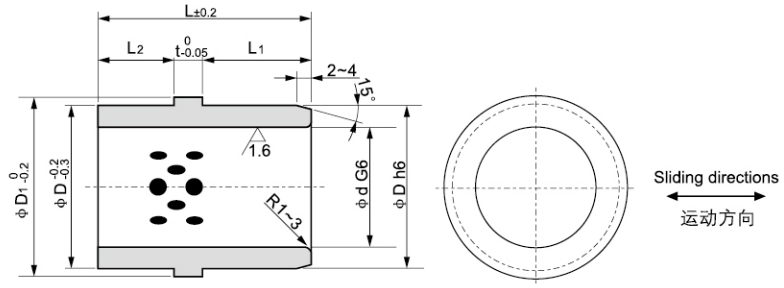
项目	代号	尺寸	ΦF	ΦD	Φd	H	L	ΦC	ΦE	ΦG	K
1	HGB250-30	90/50×30×50	90	50	30	20	50	70	11	17.5	10.8
2	HGB250-40	100/60×40×65	100	60	40	20	65	80	11	17.5	10.8
3	HGB250-50	125/75×50×80	125	75	50	20	80	100	11	17.5	10.8
4	HGB250-60	135/85×60×100	135	85	60	20	100	110	11	17.5	10.8
5	HGB250-80	170/110×80×130	170	110	80	25	130	140	14	20	13
6	HGB250-100	190/130×100×160	190	130	100	25	160	160	14	20	13

Catalog No. — d — D
CHB-HGB250 — 30 — 50

自润滑导套其他类型
Self-lubricating fixed guide other types

CHB-JNA 自润滑导套
Self-lubricating guide bush

材质	高力黄铜＋石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite



单位unit:mm

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

Standard No. 型号规格	d	L	d G6		D h6		D_1	L_1	L_2	t
JNB-25×33	25	33	25		35		40	19	6	
JNB-25×38		38		+0.020 +0.007				24		
JNB-30×48		48			40		45	29	11	
JNB-30×47	30	47	30		42	0 −0.016	47	24	15	
JNB-30×52		52						29		
JNB-35×63	35	63	35		45		50	39	16	
JNB-40×60		60						32	20	
JNB-40×70		70			50		55	42		
JNB-40×78	40	78	40					49	21	8
JNB-40×57		57		+0.025 +0.009				24	25	
JNB-40×67		67			55		60	29	30	
JNB-45×88	45	88	45					59	21	
JNB-45×95		98				0 −0.019		69		
JNB-50×67	50	67	50		62		67	29	30	
JNB-50×87		87						39	40	
JNB-60×67	60	67	60	+0.029 +0.010	74		82	29	30	
JNB-60×87		87						39	40	

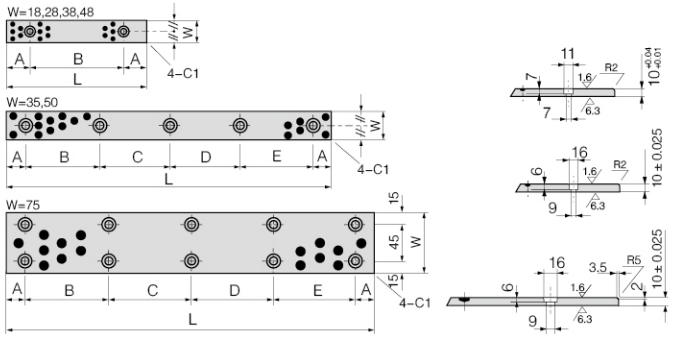
Catalog No. — d — L
CHB-JNA — 16 — 26

CHENHAN

www.ch-bearing.com

CHB-JSP 自润滑滑板
Self-lubricating skateboard

材质	高力黄铜＋石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite



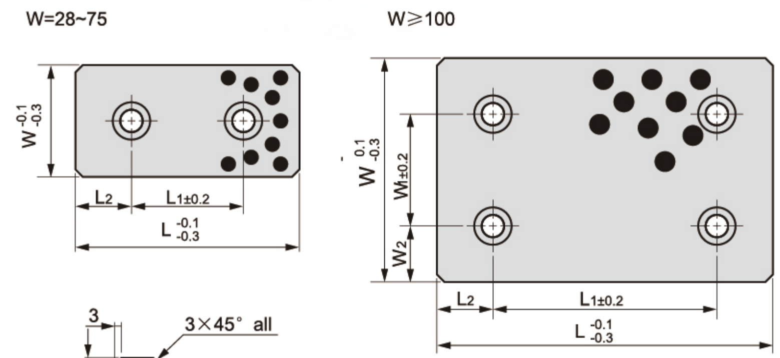
单位unit:mm

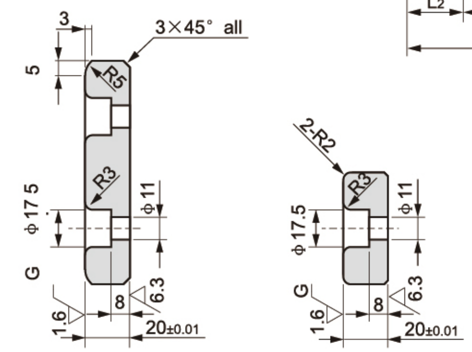
型号规格 Standard No.	W	L	A	B	C	D	E	平头螺钉 Flat Head Screw	孔数 No. of Holes
JSP–1875		75	15	45					
JSP–18100	18	100	20	60					
JSP–18125		125	25	75					
JSP–18150		150		100				M6	
JSP–2875		75	15	45					2
JSP–28100	28	100		50					
JSP–28125		125	25	75					
JSP–28150		150		100					
JSP–35100		100		60					
JSP–35150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

Catalog No. — W — L
CHB–JSP — 18 — 75

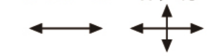
CHB-JESW 自润滑板标准公制尺寸

材质	高力黄铜＋石墨
Material	65#+ Graphite





Sliding directions
运动方向
W=28・38　W≥48



单位unit:mm

Standard No. 型号规格	W	L	W_1	W_2	L_1	L_2
JESW–28x75		75			45	15
JESW–28x100	28	100			50	25
JESW–28x150		150			100	
JESW–38x75		75			45	15
JESW–38x100	38	100			50	25
JESW–38x150		150			100	
JESW–48x75		75			45	15
JESW–48x100		100			50	
JESW–48x125	48	125			75	25
JESW–48x150		150	–	–	100	
JESW–48x200		200			150	
JESW–58x75		75			45	15
JESW–58x100	58	100			50	
JESW–58x150		150			100	
JESW–75x75		75			25	
JESW–75x100		100			50	25
JESW–75x125	75	125			75	
JESW–75x150		150			100	
JESW–75x200		200			150	

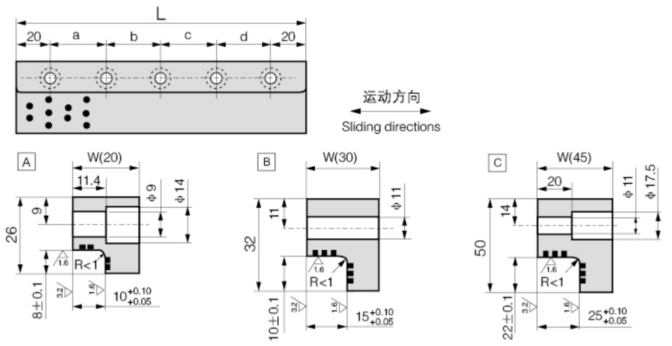
Standard No. 型号规格	W	L	W_1	W_2	L_1	L_2
JESW–100x100		100			50	
JESW–100x125		125			75	
JESW–100x150		150		25	100	25
JESW–100x200	100	200			150	
JESW–100x250		250			200	
JESW–100x300		300	50			50
JESW–125x125		125			75	
JESW–125x150		150			100	25
JESW–125x200		200			150	
JESW–125x250	125	250		37.5		
JESW–125x300		300			200	50
JESW–125x350		350				75
JESW–150x150		150			100	
JESW–150x200	150	200	100	25	150	25
JESW–150x250		250			200	

Catalog No. — W — L
CHB–JSL — 20 — 100

CHENHAN　CHENHAN

CHB-JSL L型自润滑块
L self-lubrication fast

材质	高力黄铜+石墨
Material	ZCuZn25Al6Fe3Mn3+ Graphite



单位unit:mm

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

Catalog No. — W — L
CHB-JSL — 20 — 100

钢基自润滑导板物理性能
Steel substrate physical properties of self-lubricating guides

润滑剂种类 Lubricant type	给油条件 Oil supply conditions	环境条件 Environmental conditions	最大承载 P（N/mm^2） Max Load Capacity	最高线速度 V（m/min） Max Sliding Speed	最高PV值 (N/mm^2 • m/s) Max PV Value Limit	使用温度(℃) Working temperature
固体润滑剂 GR-1	干摩擦 Dry friction	大气中 The atmosphere	100	15	150	-50~+300
	油润滑 Oil lubrication			30	200	-50~+150

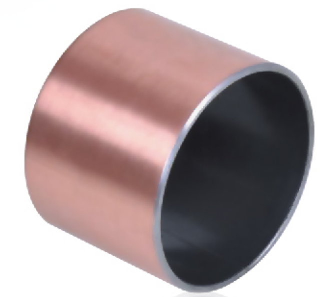
密度（g/cm^3） Densitty	硬度（HB） Hardness	延伸率（%） Elongation	屈服强度(N/mm^2) Yield strength	线膨胀系数（$\times 10^{-5}$/℃） Coefficient of linear expansion
8	>210	>12	>755	1.9

CHENHAN

电话 (Tel)：0573-84573310 传真 (Fax)：0573-84673310

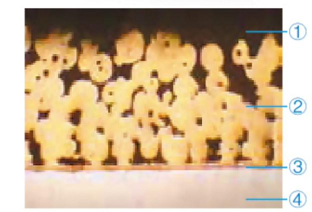
CHB-1 无油润滑轴承
Oilless Bushing

◎ CHB-1 无油润滑轴承/Oilless Bushing



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

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



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

技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 • m/s
	油润滑 Oil lubrication	50N/mm^2 • m/s
摩擦系数 μ Friction coefficient	干摩擦 Dry friction	0.04～0.20
	油润滑 Oil lubrication	0.02～0.07
使用温度 Working temperature		-195℃~+280℃
导热系数 Thermal conductivity		42W/m • K
热膨胀系数 Coefficient of thermal expansion		11×10^{-6}/K

◎ CHB-1T 齿轮泵专用轴承/Gear Pump Bushing

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

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

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

技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	10m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	4.2N/mm^2 • m/s
	油润滑 Oil lubrication	60N/mm^2 • m/s
摩擦系数 μ Friction coefficient		0.03～0.18
使用温度 Working temperature		-195℃~+280℃
导热系数 Thermal conductivity		42W/m • K

CHENHAN

电话 (Tel)：0573-84573310 传真 (Fax)：0573-84673310

www.ch-bearing.com

CHB-1 无油润滑轴承
Oilless Bushing

◎ CHB-1P 往复运动轴承/Reciprocating Motion Bushing

该产品与CHB-1具有相同结构，是根据往复运动的特殊工况条件而设计的特殊配方产品，具有断油条件下润滑能力强，耐磨性能好，保持油膜的特点。产品广泛应用于汽车减震器、摩托车减震器、液压马达、气动元件等，其性能与国外DD2相似。

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

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

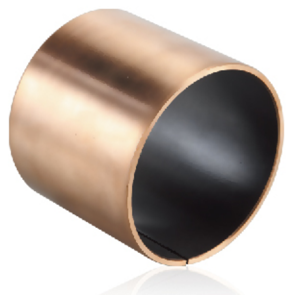
技术参数：Technical Data

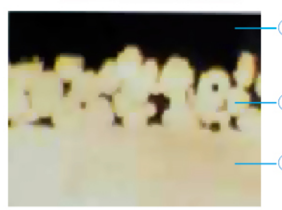
性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 • m/s
	油润滑 Oil lubrication	50N/mm^2 • m/s
摩擦系数μ Friction coefficient		0.04～0.20
使用温度 Working temperature		−195℃～+280℃
导热系数 Thermal conductivity		42W/m • K

◎ CHB-1B 铜基无给油轴承/Bronze Based Bushing

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

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





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

技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	140N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.6N/mm^2 • m/s
	油润滑 Oil lubrication	50N/mm^2 • m/s
摩擦系数μ Friction coefficient	干摩擦 Dry friction	0.03～0.08
	油润滑 Oil lubrication	0.02～0.07
使用温度 Working temperature		−195℃～+300℃
导热系数 Thermal conductivity		70W/m • K
热膨胀系数 Coefficient of thermal expansion		17×10^{-6}/K

CHB-1 无油润滑轴承
Oilless Bushing

◎ CHB-1D 液压专用轴承/Hydraulic Bushing

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

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

1.聚四氟乙烯与亲油性纤维混合物
2.球形青铜粉
3.钢背
4.电镀层（铜或锡）
1.PTFE with lead
2.Porous bronze
3.Steel backing
4.Tin-plating

技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.8N/mm^2 • m/s
	油润滑 Oil lubrication	50N/mm^2 • m/s
摩擦系数μ Friction coefficient		0.04～0.20
使用温度 Working temperature		−195℃～+280℃
导热系数 Thermal conductivity		42W/m • K

◎ CHB-1S 不锈钢耐腐蚀轴承/Stainless Steel Bushing

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

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

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

技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm^2
	动载 Dynamic load	140N/mm^2
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	2.5m/s
	油润滑 Oil lubrication	5.0m/s
最高PV值 Max PV Value Limit	干摩擦 Dry friction	3.8N/mm^2 • m/s
	油润滑 Oil lubrication	50N/mm^2 • m/s
摩擦系数μ Friction coefficient		0.04～0.20
使用温度 Working temperature		−195℃～+280℃
导热系数 Thermal conductivity		50W/m • K

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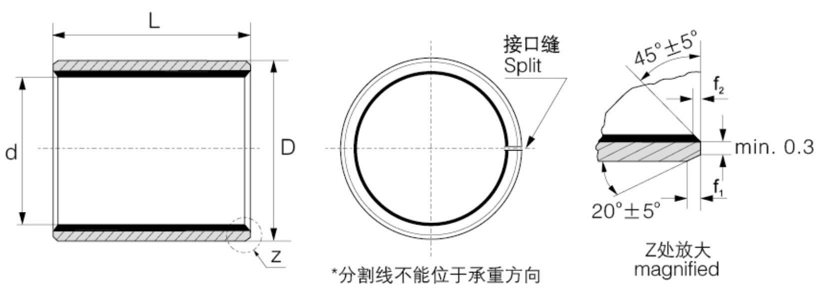
CHB-1/1B/1S/1T/1P/1D标准公差尺寸表
Standard Metric Size



*分割线不能位于承重方向
*Split line must not be located in load direction

单位unit:mm

轴径 尺寸	轴径 公差 f7	座孔 尺寸	座孔 公差 H7	外径公差 D_O		压装后内孔公差 $D_{i,a}$	壁厚 S_3	f_1	f_2	$L^{0}_{-0.40}$ (d≤Φ28 L−0.30; d>Φ30 L−0.40) 6	8	10	12	15	20	25	30	40	50
2	0 −0.006	3.5	+0.008	3.5	+0.055 +0.025	2.055 1.990	0.750 0.730	0.4	0.3										
4	0 −0.008	5.5	+0.008	5.5	+0.055 +0.025	4.055 3.990				0406	0408								
5	−0.010 −0.022	7	+0.015	7	+0.055 +0.025	5.055 4.990				0506	0508	0510							
6	−0.010 −0.022	8	+0.015	8	+0.055 +0.025	6.055 5.990				0606	0608	0610							
8	−0.013 −0.028	10	+0.015	10	+0.055 +0.025	8.055 7.990				0806	0808	0810	0812	0815					
10	−0.013 −0.028	12	+0.018	12	+0.065 +0.030	10.058 9.990				1006	1008	1010	1012	1015	1020				
12	−0.016 −0.034	14	+0.018	14	+0.065 +0.030	12.058 11.990				1206	1208	1210	1212	1215	1220	1225			
13	−0.016 −0.034	15	+0.018	15	+0.065 +0.030	13.058 12.990	1.005 0.980	0.6	0.3			1310			1320				
14	−0.016 −0.034	16	+0.018	16	+0.065 +0.030	14.058 13.990						1410	1412	1415	1420	1425			
15	−0.016 −0.034	17	+0.018	17	+0.065 +0.030	15.058 14.990						1510	1512	1515	1520	1525			
16	−0.016 −0.034	18	+0.018	18	+0.065 +0.030	16.058 15.990						1610	1612	1615	1620	1625			
17	−0.016 −0.034	19	+0.021	19	+0.075 +0.035	17.061 16.990						1710	1712		1720				
18	−0.016 −0.034	20	+0.021	20	+0.075 +0.035	18.061 17.990						1810	1812	1815	1820	1825			
20	−0.020 −0.041	23	+0.021	23	+0.075 +0.035	20.071 19.990						2010	2012	2015	2020	2025	2030		
22	−0.020 −0.041	25	+0.021	25	+0.075 +0.035	22.071 21.990	1.505 1.475	0.6	0.4			2210	2212	2215	2220	2225	2230		
24	−0.020 −0.041	27	+0.021	27	+0.075 +0.035	24.071 23.990								2415	2420	2425	2430		
25	−0.020 −0.041	28	+0.021	28	+0.075 +0.035	25.071 24.990						2510	2512	2515	2520	2525	2530	2540	2550
28	−0.020 −0.041	32	+0.025	32	+0.085 +0.045	28.085 27.990								2815	2820	2825	2830	2840	
30	−0.020 −0.041	34	+0.025	34	+0.085 +0.045	30.085 29.990							3012	3015	3020	3025	3030	3040	
32	−0.025 −0.050	36	+0.025	36	+0.085 +0.045	32.085 31.990	2.005 1.970	1.2	0.4						3220		3230	3240	
35	−0.025 −0.050	39	+0.025	39	+0.085 +0.045	35.085 34.990							3512	3515	3520	3525	3530	3540	3550
38	−0.025 −0.050	42	+0.025	42	+0.085 +0.045	38.085 37.990								3815			3830	3840	
40	−0.025 −0.050	44	+0.025	44	+0.085 +0.045	40.085 39.990							4012		4020	4025	4030	4040	4050

Catalog No. — d — L
CHB-1 — 15 — 10

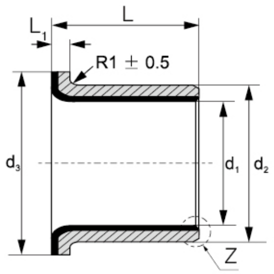
CHB-1/1B/1S/1T/1P/1D标准公差尺寸表
Standard Metric Size

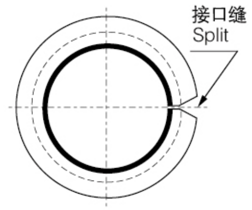
单位unit:mm

注：轴径75以上公差为h8

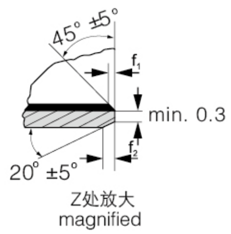
轴径 尺寸	轴径 公差 f7	座孔 尺寸	座孔 公差 H7	外径公差 D_O		压装后内孔公差 $D_{i,a}$	壁厚 S_3	f_1	f_2	$L^{0}_{-0.40}$ (d≤Φ28 L−0.30; d>Φ30 L−0.40) 20	25	30	40	50	60	70	80	100	115
45	−0.025 −0.050	50	+0.025	50	+0.085 +0.045	45.105 44.990				4520	4525	4530	4540	4550					
50	−0.025 −0.050	55	+0.030	55	+0.100 +0.055	50.110 49.990				5020		5030	5040	5050	5060				
55	−0.030 −0.060	60	+0.030	60	+0.100 +0.055	55.110 54.990						5530	5540	5550	5560				
60	−0.030 −0.060	65	+0.030	65	+0.100 +0.055	60.110 59.990	2.505 2.460	1.8	0.6			6030	6040	6050	6060	6070			
65	−0.030 −0.060	70	+0.030	70	+0.100 +0.055	65.110 64.990						6530	6540	6550	6560	6570			
70	−0.030 −0.060	75	+0.030	75	+0.100 +0.055	70.110 69.990							7040	7050	7060	7070	7080		
75	−0.030 −0.060	80	+0.030	80	+0.100 +0.055	75.110 74.990						7530	7540	7550	7560	7570	7580		
80	−0.045	85	+0.035	85	+0.120 +0.070	80.155 80.020							8040	8050	8060	8070	8080	80100	
85	−0.054	90	+0.035	90	+0.120 +0.070	85.155 85.020							8540		8560		8580	85100	
90	−0.054	95	+0.035	95	+0.120 +0.070	90.155 90.020							9040	9050	9060		9080	90100	
95	−0.054	100	+0.035	100	+0.120 +0.070	95.155 95.020	2.490 2.440	1.8	0.6					9550	9560		9580	95100	
100	−0.054	105	+0.035	105	+0.120 +0.070	100.155 100.020								10050	10060		10080		100115
105	−0.054	110	+0.035	110	+0.120 +0.070	105.155 105.020									10560		10580		105115
110	−0.054	115	+0.035	115	+0.120 +0.070	110.115 110.020									11060		11080		110115
120	−0.054	125	+0.040	125	+0.170 +0.100	120.210 120.070									12060		12080	120100	
125	−0.063	130	+0.040	130	+0.170 +0.100	125.210 125.070									12560			125100	125115
130	−0.063	135	+0.040	135	+0.170 +0.100	130.210 130.070	2.465 2.415	1.8	0.6						13060		13080	130100	
140	−0.063	145	+0.040	145	+0.170 +0.100	140.210 140.070									14060		14080	140100	
150	−0.063	155	+0.040	155	+0.170 +0.100	150.210 150.070									15060		15080	150100	
160	−0.063	165	+0.040	165	+0.170 +0.100	160.210 160.070									16060		16080	160100	160115
180	−0.063	185	+0.046	185	+0.210 +0.130	180.216 180.070											18080	180100	
190	−0.072	195	+0.046	195	+0.210 +0.130	190.216 190.070	2.465 2.415	1.8	0.6								19080	190100	
200	−0.072	205	+0.046	205	+0.210 +0.130	200.016 200.070											20080	200100	
220	−0.072	225	+0.046	225	+0.210 +0.130	220.216 220.070									20060		22080	220100	
250	−0.072	255	+0.052	255	+0.260 +0.170	250.222 250.070											25080	250100	
260	−0.081	265	+0.052	265	+0.260 +0.170	260.222 260.070	2.465 2.415	1.8	0.6								26080	260100	
280	−0.081	285	+0.052	285	+0.260 +0.170	280.222 280.070											28080	280100	
300	−0.081	305	+0.052	305	+0.260 +0.170	300.222 300.070													

CHB-1F 无油翻边轴套标准尺寸表
Oil-Flanged Bushes Standard Metric Size





*分割线不能位于承重方向
*Split line must not be located in load direction

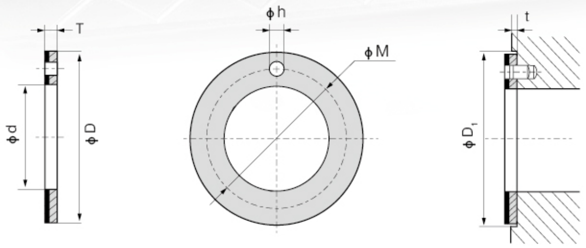


单位unit:mm

轴径 尺寸	轴径 公差 f7	座孔 尺寸	座孔 公差 H7	规格标志 Desc.	尺寸 d_1	尺寸 d_2	尺寸 $d_3 \pm 0.5$	尺寸 $L \pm 0.25$	尺寸 $L_1 \pm 0.2$	f_1	f_2
6	−0.013 −0.028	8	+0.015	CHB−1F 06040	6	8	12	4			
				CHB−1F 06070				7			
8	−0.013 −0.028	10	+0.015	CHB−1F 08055	8	10	15	5.5			
				CHB−1F 08075				7.5			
10	−0.016 −0.034	12	+0.018	CHB−1F 10070				7			
				CHB−1F 10090	10	12	18	9			
				CHB−1F 10120				12			
12	−0.016 −0.034	14	+0.018	CHB−1F 12070				7			
				CHB−1F12090	12	14	20	9			
				CHB−1F12120				12	1	0.5	0.4
14	−0.016 −0.034	16	+0.018	CHB−1F14120	14	16	22	12			
				CHB−1F14170				17			
15	−0.016 −0.034	17	+0.018	CHB−1F15090				9			
				CHB−1F15120	15	17	23	12			
				CHB−1F15170				17			
16	−0.016 −0.034	18	+0.018	CHB−1F16120	16	18	24	12			
				CHB−1F16170				17			
18	−0.016 −0.034	20	+0.021	CHB−1F18120				12			
				CHB−1F18170	18	20	26	17			
				CHB−1F18200				20			
20	−0.020 −0.041	23	+0.021	CHB−1F20115				11.5			
				CHB−1F20165	20	23	30	16.5			
				CHB−1F20215				21.5			
22	−0.020 −0.041	25	+0.021	CHB−1F22150	22	25	32	15	1.5	0.8	0.4
				CHB−1F22200				20			
25	−0.020 −0.041	28	+0.021	CHB−1F25115				11.5			
				CHB−1F25165	25	28	35	16.5			
				CHB−1F25215				21.5			
30	−0.025 −0.050	34	+0.021	CHB−1F30160	30	34	42	16			
				CHB−1F30260				26			
35	−0.025 −0.050	39	+0.025	CHB−1F35160	35	39	47	16	2	1.0	0.5
				CHB−1F35260				26			
40	−0.025 −0.050	44	+0.025	CHB−1F40260	40	44	53	26			
				CHB−1F40400				40			

Catalog No. — d — L
CHB−1F — 15 — 12

CHB-1WC 复合止推垫片
标准公差尺寸表 Standard Metric Size

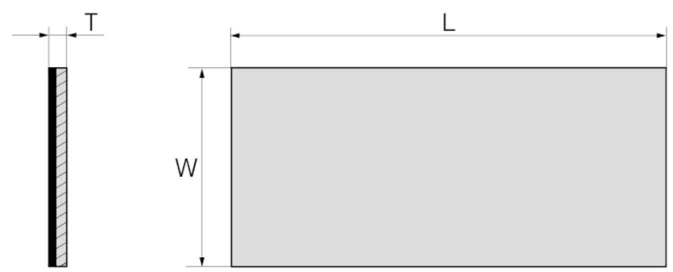


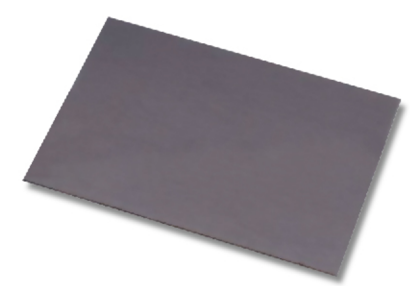
单位unit:mm

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

Catalog No. — d
CHB−1WC — 10

CHB-1/1B/1S/1T/1P/1D 滑板
标准公差尺寸表 Standard Metric Size





单位unit:mm

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

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CHENHAN
CHENHAN
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www.ch-bearing.com

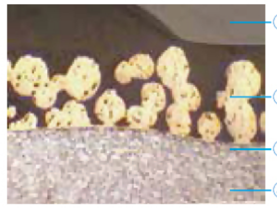
CHB-2 边界润滑轴承
Boundary Lubricating Bushing

◎ CHB-2 边界润滑轴承/Marginal Lubrication Bushing（标准公差尺寸见第22页）

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

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

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm²
	动载 Dynamic load	150N/mm²
最高线速度 V Max Sliding Speed	脂润滑 Grease lubrication	2.5m/s
最高PV值 Max PV Value Limit	脂润滑 Grease lubrication	2.8N/mm²・m/s
摩擦系数 μ Friction coefficient	脂润滑 Grease lubrication	0.05～0.25
使用温度 Working temperature		-40℃～+130℃
导热系数 Thermal conductivity		4W/m・K
热膨胀系数 Coefficient of thermal expansion		12×10^{-6}/K



1.聚甲醛与纤维混合物
2.球形青铜粉
3.钢背
4.电镀层（铜或锡）
1.POM with fiber
2.Porous bronze
3.Steel backing
4.Tin-plating

◎ CHB-2Y 边界润滑无铅轴承/Marginal Lubricating Lead-Free Bushing

该产品与CHB-2具有相同结构和使用性能，同时具有环保功能，在边界润滑条件下可长期使用而不加油，耐磨层表面有储油坑。产品广泛应用于冶金机械、矿山机械、水利机械、汽机车、建筑机械、农用机械、轧钢行业、食用机械、制药机械、烟草机械等。

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

技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	250N/mm²
	动载 Dynamic load	150N/mm²
最高线速度 V Max Sliding Speed	脂润滑 Grease lubrication	2.5m/s
最高PV值 Max PV Value Limit	脂润滑 Grease lubrication	3.6N/mm²・m/s
摩擦系数 μ Friction coefficient	脂润滑 Grease lubrication	0.05～0.25
使用温度 Working temperature		-40℃～+130℃
导热系数 Thermal conductivity		4W/m・K
热膨胀系数 Coefficient of thermal expansion		12×10^{-6}/K

1.聚甲醛与纤维混合物
2.球形青铜粉
3.钢背
4.电镀层（铜或锡）
1.POM with fiber
2.Porous bronze
3.Steel backing
4.Tin-plating

CHENHAN

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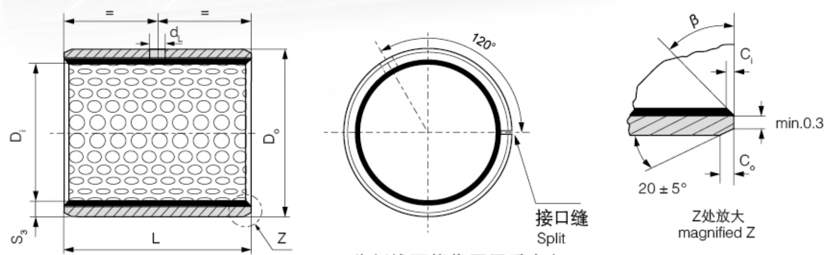
CHB-2 边界润滑轴承标准公制尺寸
Marginal-lubricationg Bearing Stangdard Metric Size



*分割线不能位于承重方向
*Split line must not be located in load direction

单位unit:mm

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

Catalog No.	—	d	—	L
CHB-2	—	15	—	15

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CHB-2 边界润滑轴承标准公制尺寸
Marginal-lubricationg Bearing Stangdard Metric Size

单位unit:mm

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

电话 (Tel)：0573-84573310　传真 (Fax)：0573-84673310

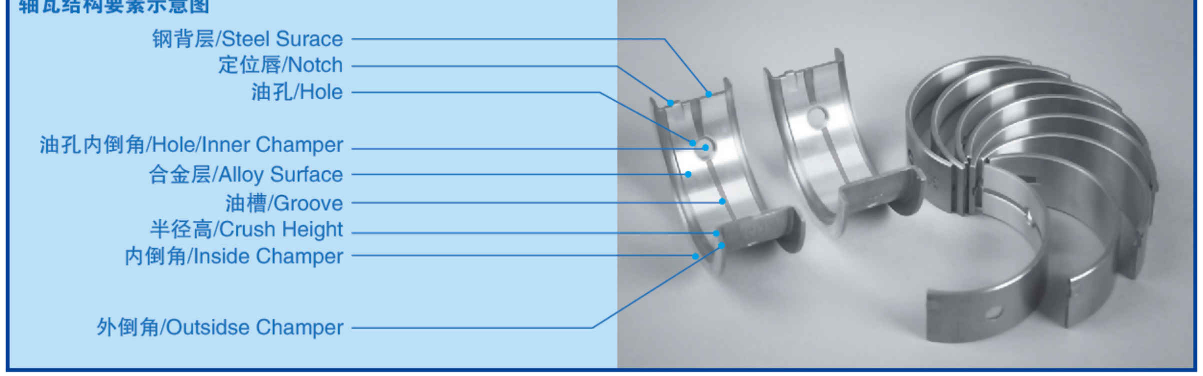
CHB-800双金属轴承
Bimetallic Self-Lubricating Bearing

CHB-800双金属轴承，是以低碳钢板为基体材料，表面烧结CuSn6Zn6Pb3或CuPb10Sn10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荷低速运动轴承。

CHB-800 bimetal bearing, is a low-carbon steel as the basematerial, the surface of the material sintered CuSn6Zn6Pb3 or CuPb10Sn10 steel and copper alloy products. The product isa two-alloy bearings in the bearing capacity of the strongestone, the balance of the bridge sleeve heavy vehicles are using the product. It is a very versatile and any low speed high load bearings.

轴瓦结构要素的作用与要求：

轴瓦结构要素示意图



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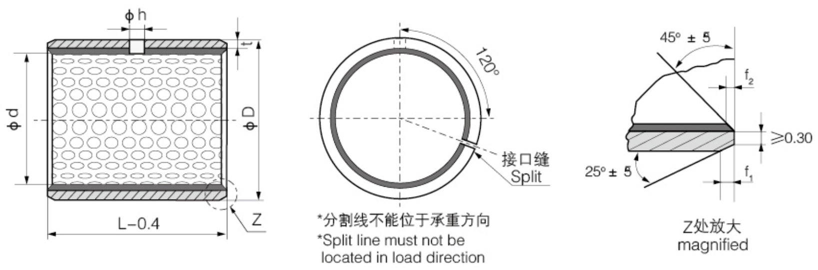
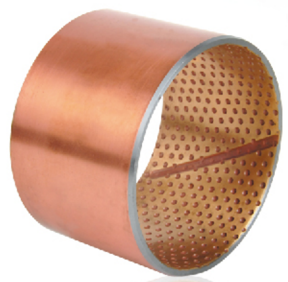
CHB-800 标准公制轴承
Metric Standard Bushing





单位unit:mm

型号 Type	外径 ϕD	内径 ϕd	相配轴径 尺寸	相配轴径 公差 f7	相配座孔 尺寸	相配座孔 公差 H7	Hole ϕh	f_1	f_2	L $^{-0.4}$ 15	20	25	30	40	50
CHB-800	12	10	10	-0.013 -0.028	12	+0.018 0				1015	1020				
CHB-800	14	12	12	-0.016 -0.034	14	+0.018 0				1215	1220				
CHB-800	16	14	14	-0.016 -0.034	16	+0.018 0				1415	1420				
CHB-800	17	15	15	-0.016 -0.034	17	+0.018 0		0.6	0.3	1515	1520	1525			
CHB-800	18	16	16	-0.016 -0.034	18	+0.018 0	ϕ4			1615	1620	1625			
CHB-800	19	17	17	-0.016 -0.034	19	+0.021 0				1715	1720	1725			
CHB-800	20	18	18	-0.016 -0.034	20	+0.021 0				1815	1820	1825			
CHB-800	23	20	20	-0.020 -0.041	23	+0.021 0				2015	2020	2025			
CHB-800	25	22	22	-0.020 -0.041	25	+0.021 0					2220	2225	2230		
CHB-800	27	24	24	-0.020 -0.041	27	+0.021 0		0.8	0.4		2420	2425	2430		
CHB-800	28	25	25	-0.020 -0.041	28	+0.021 0					2520	2525	2530		
CHB-800	30	26	26	-0.020 -0.041	30	+0.021 0	ϕ6				2620	2625	2630		
CHB-800	32	28	28	-0.020 -0.041	32	+0.025 0					2820	2825	2830		
CHB-800	34	30	30	-0.020 -0.041	34	+0.025 0					3020	3025	3030		
CHB-800	36	32	32	-0.025 -0.050	36	+0.025 0		1.2	0.6		3220	3225	3230	3240	
CHB-800	39	35	35	-0.025 -0.050	39	+0.025 0					3520	3525	3530	3540	
CHB-800	42	38	38	-0.025 -0.050	42	+0.025 0					3820	3825	3830	3840	
CHB-800	44	40	40	-0.025 -0.050	44	+0.025 0						4025	4030	4040	
CHB-800	50	45	45	-0.025 -0.050	50	+0.025 0	ϕ8					4525	4530	4540	
CHB-800	55	50	50	-0.025 -0.050	55	+0.025 0		1.6	0.8				5030	5040	5050
CHB-800	60	55	55	-0.030 -0.060	60	+0.030 0							5530	5540	5550

Catalog No. — d — L
CHB-800 — 15 — 15

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CHB-800 标准公制轴承
Metric Standard Bushing

单位unit:mm

型号 Type	外径 ϕD	内径 ϕd	相配轴径 尺寸	相配轴径 公差 f7	相配座孔 尺寸	相配座孔 公差 H7	Hole ϕh_1	f_1	f_2	L −0.4 40	50	60	70	80	100
CHB-800	65	60	60	-0.030 -0.060	65	+0.030 0	ϕ8			6040	6050	6060			
CHB-800	70	65	65	-0.030 -0.060	70	+0.030 0				6540	6550	6560			
CHB-800	80	75	75	-0.030 -0.060	80	+0.030 0				7540	7550	7560			
CHB-800	85	80	80	-0.030 -0.060	85	+0.035 0				8040	8050	8060			
CHB-800	90	85	85	-0.036 -0.071	90	+0.035 0					8550	8560	8570		
CHB-800	95	90	90	-0.036 -0.071	95	+0.035 0					9050	9060	9070		
CHB-800	100	95	95	-0.036 -0.071	100	+0.035 0					9550	9560	9570		
CHB-800	105	100	100	-0.036 -0.071	105	+0.035 0					10050	10060	10070		
CHB-800	110	105	105	-0.036 -0.071	110	+0.035 0		1.6	0.8		10550	10560	10570		
CHB-800	115	110	110	-0.036 -0.071	115	+0.035 0	ϕ9.5				11050	11060	11070		
CHB-800	120	115	115	-0.036 -0.071	120	+0.035 0						11560	11570	11580	
CHB-800	125	120	120	-0.036 -0.071	125	+0.040 0						12060	12070	12080	
CHB-800	130	125	125	-0.043 -0.083	130	+0.040 0						12560	12570	12580	
CHB-800	135	130	130	-0.043 -0.083	135	+0.040 0						13060	13070	13080	
CHB-800	140	135	135	-0.043 -0.083	140	+0.040 0								13580	135100
CHB-800	150	145	145	-0.043 -0.083	150	+0.040 0								14580	145100
CHB-800	155	150	150	-0.043 -0.083	155	+0.040 0								15080	150100

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CHB-FB090/092 系列青铜卷制轴承
Monometallic Self-lubricating Bearing

◎ CHB-FB090 青铜卷制轴承/Monometallic Self-lubricating Bearing

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

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

技术参数/Technical Data

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

材料特性/Material Characterisitc

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

◎ CHB-FB092 青铜卷制轴承/Monometallic Self-lubricating Bearing

该产品CuSn6.5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。

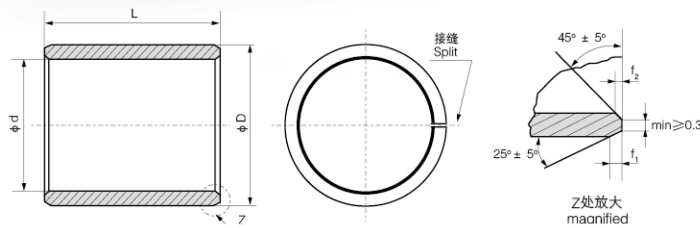
CHB-FB092 Bronze punch hole self-lubricating bearing used CuSn6.5 as base, designed regularoil holes bestrewn working surface, it has high load capacity, well wearing resistance and low friction coefficient, it has been widely applied to transportation machinery, elevator, coiling machinery and agriculture equipment.

技术参数/Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	110N/mm ^{2}
	动载 Dynamic load	30N/mm ^{2}
最高线速度 V Max Sliding Speed		2.5m/s
最高PV值 Max PV Value Limit		2.8N/mm ^{2} • m/s
摩擦系数 μ Friction coefficient		0.08～0.25
使用温度 Working TEMP		−100℃～+200℃
导热系数 Thermal conductivity		60W/m • K
热膨胀系数 Coefficient of thermal expansion		15×10^{-6}/K

电话 (Tel)：0573-84573310　传真 (Fax)：0573-84673310

CHB-FB090/092 标准公制轴承
Metric Standard Bushing



单位unit:mm

外径 ϕD	内径 ϕd	相配轴径 Axle		相配座孔 Housing		f_1	f_2	L±0.25						
		尺寸	公差 f7	尺寸	公差 H7			10	15	20	25	30	40	50
12	10	10	−0.013 −0.028	12	+0.018 0			1010	1015	1020				
14	12	12	−0.016 −0.034	14	+0.018 0			1210	1215	1220				
16	14	14	−0.016 −0.034	16	+0.018 0				1415	1420				
17	15	15	−0.016 −0.034	17	+0.018 0	0.6	0.3		1515	1520	1525			
18	16	16	−0.016 −0.034	18	+0.018 0				1615	1620	1625			
19	17	17	−0.016 −0.034	19	+0.021 0				1715	1720	1725			
20	18	18	−0.016 −0.034	20	+0.021 0				1815	1820	1825			
23	20	20	−0.020 −0.041	23	+0.021 0				2015	2020	2025	2030		
25	22	22	−0.020 −0.041	25	+0.021 0	0.8	0.4		2215	2220	2225	2230		
27	24	24	−0.020 −0.041	27	+0.021 0					2420	2425	2430		
28	25	25	−0.020 −0.041	28	+0.021 0					2520	2525	2530		
32	28	28	−0.020 −0.041	32	+0.025 0					2820	2825	2830		
34	30	30	−0.020 −0.041	34	+0.025 0					3020	3025	3030	3040	
36	32	32	−0.025 −0.050	36	+0.025 0	1.2	0.6			3220	3225	3230	3240	
39	35	35	−0.025 −0.050	39	+0.025 0					3520	3525	3530	3540	
44	40	40	−0.025 −0.050	44	+0.025 0					4020	4025	4030	4040	
50	45	45	−0.025 −0.050	50	+0.025 0					4520	4525	4530	4540	
55	50	50	−0.025 −0.050	55	+0.030 0							5030	5040	5050
60	55	55	−0.030 −0.060	60	+0.030 0	1.6	0.8					5530	5540	5550
65	60	60	−0.030 −0.060	65	+0.030 0							6030	6040	6050
70	65	65	−0.030 −0.060	70	+0.030 0							6530	6540	6550
75	70	70	−0.030 −0.060	75	+0.030 0							7030	7040	7050

Catalog No. — d — L
CHB-FB090 — 15 — 15

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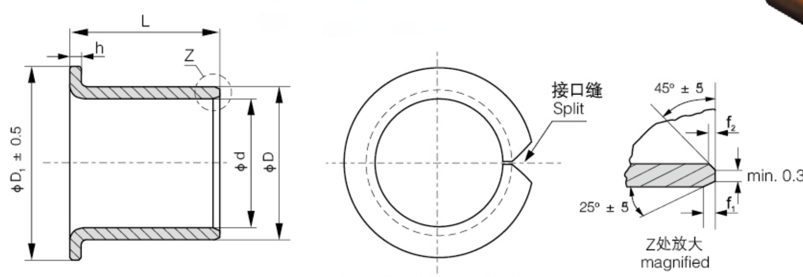
CHB-FB090/092 标准公制轴承
Metric Standard Bushing

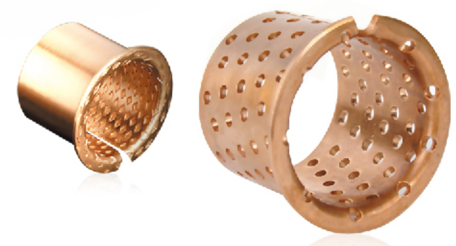
单位unit:mm

外径 ϕD	内径 ϕd	相配轴径 Axle 尺寸	相配轴径 Axle 公差 f7	相配座孔 Housing 尺寸	相配座孔 Housing 公差 H7	f_1	f_2	L±0.25: 30	40	50	60	80	100	120
75	70	70	−0.030 −0.060	75	+0.030 0			7030	7040	7050				
80	75	75	−0.030 −0.060	80	+0.030 0				7540	7550	7560			
85	80	80	−0.030 −0.060	85	+0.035 0				8040	8050	8060			
90	85	85	−0.036 −0.071	90	+0.035 0				8540	8550	8560			
95	90	90	−0.036 −0.071	95	+0.035 0					9050	9560	9580		
100	95	95	−0.036 −0.071	100	+0.035 0					9550	9560	9580		
105	100	100	−0.036 −0.071	105	+0.035 0					10050	10060	10080	100100	
110	105	105	−0.036 −0.071	110	+0.035 0					10550	10560	10580	105100	
115	110	110	−0.036 −0.071	115	+0.035 0					11050	11060	11080	110100	
120	115	115	−0.036 −0.071	120	+0.035 0					11550	11560	11580	115100	
125	120	120	−0.036 −0.071	125	+0.040 0						12060	12080	12100	
130	125	125	−0.043 −0.083	130	+0.040 0						12560	12580	125100	
135	130	130	−0.043 −0.083	135	+0.040 0						13060	13080	130100	
140	135	135	−0.043 −0.083	140	+0.040 0						13560	13580	135100	
145	140	140	−0.043 −0.083	145	+0.040 0	1.6	0.8				14060	14080	140100	
150	145	145	−0.043 −0.083	150	+0.040 0						14560	14580	145100	
160	155	155	−0.043 −0.083	160	+0.040 0							15580	155100	155120
170	165	165	−0.043 −0.083	170	+0.040 0							16580	165100	165120
180	175	175	−0.043 −0.083	180	+0.040 0							17580	175100	175120
190	185	185	−0.050 −0.096	190	+0.046 0							18580	185100	185120
200	195	195	−0.050 −0.096	200	+0.046 0							19580	195100	195120
210	205	205	−0.050 −0.096	210	+0.046 0							20580	205100	205120
220	215	215	−0.050 −0.096	220	+0.046 0							21580	215100	215120
230	225	225	−0.050 −0.096	230	+0.046 0							22580	225100	225120
240	235	235	−0.050 −0.096	240	+0.046 0							23580	235100	235120
250	245	245	−0.050 −0.096	250	+0.046 0							24580	245100	245120
265	260	260	−0.056 −0.108	265	+0.052 0							26080	260100	260120
285	280	280	−0.056 −0.108	285	+0.052 0							28080	280100	280120
305	300	300	−0.056 −0.108	305	+0.052 0							30080	300100	300120

CHB-FB090F/092F 青铜卷制翻边轴承
Wrapped Bronze Flanged Bushing



*分割线不能位于承重方向
*Split line must not be located in load direction



单位unit:mm

内径 ϕd	外径 ϕD	法兰外径 ϕD_1±0.5	法兰壁厚 h	高度 L±0.25	f_1	f_2	相配轴径 Axle 尺寸	相配轴径 Axle 公差 f7	相配座孔 Housing 尺寸	相配座孔 Housing 公差 H7
25	28	35	1.5	20	0.8	0.4	25	−0.020 −0.041	28	+0.021 0
				25						
30	34	45		20			30	−0.020 −0.041	34	+0.025 0
				25						
				30						
35	39	50	2.0	30	1.2	0.6	35	−0.025 −0.050	39	+0.025 0
				40						
				50						
40	44	55		30			40	−0.025 −0.050	44	+0.025 0
				40						
				50						
50	55	65		30			50	−0.025 −0.050	55	+0.030 0
				40						
				50						
55	60	70		30			55	−0.030 −0.060	60	+0.030 0
				40						
				50						
60	65	75		40			60	−0.030 −0.060	65	+0.030 0
				50						
				60						
80	85	100	2.5	50	1.6	0.8	80	−0.030 −0.060	85	+0.035 0
				60						
				80						
100	105	120		50			100	−0.036 −0.071	105	+0.035 0
				60						
				80						
160	165	190		60			160	−0.043 −0.083	165	+0.040 0
				80						
200	205	235		60			200	−0.050 −0.096	205	+0.046 0
				80						

Catalog No. — d — L
CHB-FB090F — 25 — 20

CHB-FU 系列
FU Series

◎ CHB-FU1 铜基含油粉末冶金轴承/Sintered Bronze Bushing

CHB-FU1铜基含油轴承,是以锡青铜粉末为原料，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。

CHB-FU1 sintered bronze bushing powder is mold pressed under high pressure and then sintered underhigh temperature, and oil is soaked into the homogeneously spreaded tiny pores of the metal undervacuum. 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.

技术参数/Technical Data

性能指标 Performance Index	有关数据 Data
最大承载压力 P Max Load Capacity P	45N/mm²
工作温度 Working Temperature	-60℃~+160℃
最高滑动速度 Max.Sliding Speed V	2.5m/s
材质 Material	CuSn6-6-3
允许最高PV值 Maximum PV Value	2.45N/mm² • m/s

◎ CHB-FU2 铁基含油粉末冶金轴承/Sintered Iron Bushing

CHB-FU2铁基含油轴承，是一种铁基粉末冶金产品，由于含油的作用，可以防止咬轴现象。在低载荷的情况下，可以有与铜粉末冶金相似的耐磨性能。该产品广泛应用于纺织机械、汽车、摩托车减震器和电动工具的滑动部位。在静态使用的环境下可用作导向定位轴套的基座.

CHB-FU2 sintered iron power bearing, it can avoid seizing shaft due to the oil content in the bushing.Same as bronze power bushings, FU-2 bushing has good performance of anti-friction if it works under low load. It can be widely used in sliding part of textile machines, electric tools, shock absorbers of automobile and motorcycle. Under static condition, it can be used as base housing for guiding and fixing position.

技术参数/Technical Data

性能指标 Performance Index	有关数据 Data
最大承载压力 P Max Load Capacity P	45N/mm²
工作温度 Working Temperature	-60℃~+160℃
最高滑动速度 Max.Sliding Speed V	2.5m/s
材质 Material	Fe
允许最高PV值 Maximum PV Value	1.6N/mm² • m/s

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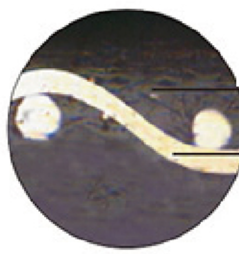
CHB-FR铜网+PTFE/纤维

◎ 基材特性

CHB-FR　是以特制铜网为基体烧结PTFE润滑层的材料，安装简便高效，具有扭矩范围大的特点，适用于低速轻载的应用条件。

材料组织

CHB-FR以金属铜网为基材，表面附着以PFTE为主的耐磨材料，这种材料结构使产品的重量更轻，安装更方便。目前被广泛运用于化工行业、食品工业、阀门控制机构、办公事务机械、纺织机械、汽车门窗铰链等轻载低速但需要自润滑的场合。



技术参数：Technical Data

性能指标 Performance index		数据 Data
最大承载 P Max Load Capacity	静载 Static load	80N/mm²
	动载 Dynamic load	40N/mm²
最高线速度 V Max Sliding Speed	干摩擦 Dry friction	1m/s
	油润滑 Oil lubrication	＞1m/s
摩擦系数μ Friction coefficient		0.03～0.20
使用温度 Working temperature		-50℃～+260℃

典型应用

这种材料普遍应用于轻量化设计的部件如汽车门铰链、阀门机构、办公机械、纺织机械等。

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CHB-FZ 保持架系列
FZ Keep Series

◎ CHB-FZH 铜基钢球保持架/Bronze Ball Retainer（标准公差尺寸见第34页）

该产品以铜基，配以优质钢球，按一定的角度和密度有序地排列，采用特殊工艺加工而成。产品适用于冷冲模具，精密机床等。

The basement of this product is copper. With the high quality roller being arranged orderly in certain angle and density, it is produced by special workmanship. This kind of products is used in punching mold and high-precision machine tools.

技术参数/Technical Data

最大承载压力 The maximum load	30N/mm^2	装配过盈 Assembly interference	0.01mm~0.02mm

◎ CHB-FZL 铝基钢球保持架/Aluminium Ball Retainer

该产品以铝基为基体，配以优质钢球，按一定的角度和密度有序地排列，采用特殊工艺加工而成。产品适用于冷冲模具，精密机床等。

The basement of this product is aluminum. With the high quality roller being arranged orderly in certain angle and density, it is produced by special workmanship. This kind of products is used in punching mold and high-precision machine tools.

技术参数/Technical Data

最大承载压力 The maximum load	25N/mm^2	装配过盈 Assembly interference	0.01mm~0.02mm

◎ CHB-FZP 树脂基钢球保持架/Resin Ball Retainer

该产品以POM为基体，配以优质钢球，按一定的角度和密度有序地排列，采用特殊工艺加工而成。产品适用于冷冲模具，精密机床等。

The basement of this product is POM. With the high quality roller being arranged orderly in certain angle and density, it is produced by special workmanship. This kind of products is used in punching mold and high-precision machine tools.

技术参数/Technical Data

最大承载压力 The maximum load	20N/mm^2	装配过盈 Assembly interference	0.01mm~0.02mm

球状误差和表面粗糙度：Error and the spherical surface roughnessData 单位：μm

等级 Grade	球直径变动量 V_{DWS}(max)	球形误差 max	表面粗糙度 R_a(max)
G10	0.25	0.25	0.020
G16	0.4	0.4	0.025
G20	0.5	0.5	0.032

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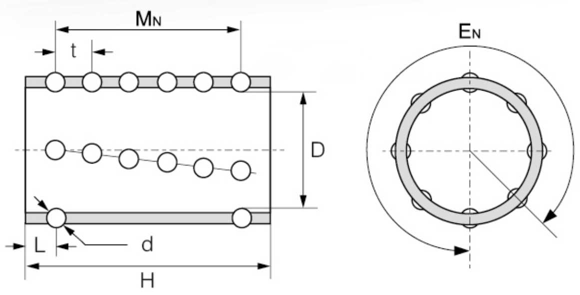
CHB-FZ 钢球保持架标准尺寸
Ball Retainer Standard Metric Sizes



单位Unit: mm

型号规格 Designation	ϕD	H	ϕd	E_N	M_N	钢球数量 Balls	t	L
CHB-FZ 1950	19	50			8	96		5.75
CHB-FZ 1960		60		12	10	120		5.25
CHB-FZ 2050	20	50			8	96		5.75
CHB-FZ 2060		60			10	120	5.5	5.25
CHB-FZ 2250	22	50			8	112		5.75
CHB-FZ 2260		60	3	14	10	140		5.25
CHB-FZ 2360	23	60			10	140		5.25
CHB-FZ 2475	24	75			13	208	5.45	4.80
CHB-FZ 2550	25	50		16	8	128	5.5	5.75
CHB-FZ 2560		60			10	160		5.25
CHB-FZ 2775	27	75			13	208	5.45	4.80
CHB-FZ 2860	28	60			8	112		7.25
CHB-FZ 2875		75		14	11	154		5.0
CHB-FZ 3060	30	60			8	112		7.25
CHB-FZ 3075		75	4		11	154	6.5	5.0
CHB-FZ 3260	32	60			8	128		7.25
CHB-FZ 3275		75			11	176		5.0
CHB-FZ 3685	36	85			12	192		6.75
CHB-FZ 3690		90		16	13	208		6.0
CHB-FZ 3870	38	70			8	128	8.0	7.0
CHB-FZ 3890		90			11	176		5.5
CHB-FZ 4090	40	90			11	176	7.9	5.5
CHB-FZ 4590	45	90		18	11	195		5.5
CHB-FZ 45110		110	5		13	234	8.0	7.0
CHB-FZ 5090	50	90		20	11	220	7.9	5.5
CHB-FZ 50110		110			13	260	8.0	7.0
CHB-FZ 6090	60	90		22	11	242	7.9	5.5
CHB-FZ 60110		110			13	286	8.0	7.0
CHB-FZ 80130	80	130		28	15	420		9.0

Catalog No. — d — D — H

CHB-FZH1950 — 3 — 19 — 50

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铸造铜合金中外牌号对照表

No	中国 GB/T 1176	国际标准 ISO 1338	德国 DIN 1705	英国 BS 1400	法国 NFA53-707	俄罗斯 ГОСТ 613	日本JIS H5111等	美国ASTM B584等
1	ZCuSn3Zn8Pb6Ni1		G-CuSn2ZnPb	LG1	CuSn3Zn9Pb7	БрО3Ц7С5Н1	BC1	C83800
2	ZCuSn3Zn11Pb4		G-CuSn2ZnPb	LG1	CuSn3Zn9Pb7	БрО3Ц12С5	BC1	C83810
3	ZCuSn5Zn5Pb5	CuPb5Sn5Zn5	G-CuSn5ZnPb	LG2	CuSn5Zn5Pb5	БрО5Ц5С5	BC6	C83600
4	ZCuSn10P1	CuSn11P		PB1	CuSn12P	БрО10Ф1	PBC2	C90710
5	ZCuSn10Pb5	CuSn8Pb2	G-CuSn7ZnPb	LB2	CuSn8		LBCLn2	C92710
6	ZCuSn10Zn2	CuSn10Zn2	G-CuSn10Zn	G1	CuSn8	БрО10Ц2	BC3	C90500
7	ZCuPb10Sn10	CuPb10Sn10	G-CuPb10Sn	LB2	CuSn10Pb10	БрО10Ц10	LBC3C	C93700
8	ZCuPb15Sn8	CPb15Sn8	G-CuPb15Sn	LB1			LBC4	C93800
9	ZCuPb17Sn4Zn4	CuPb17Sn4Zn4	G-CuPb20Sn		CuPb20Sn5	БрО4Ц4С17		C94100
10	ZCuPb20Sn5	CuPb20Sn5		LB5	CuPb20Sn5	БрО5С25	LBC5	C94500
11	ZCuPB30					БрС30		C94310
12	ZCuAl8Mn13Fe3			CMA1		БрА7Мц15Ж3Н2Ц2	AlBC4	C95700
13	ZCuAl8Mn13Fe3Ni2			CMA1		БрА7Мц15Ж3Н2Ц2	AlBC4	C95700
14	ZCuAl9Mn2					БрА9Мц2Л	AlBC2	C95520
15	ZCuAl9Fe4Ni4Mn2	CUAl10Fe5Ni5	G-CuAl9Ni			БрА9Ж4Н4Мц1	AlBC3C	C95810
16	ZCuAl10Fe3	CuAl10Fe3	G-CuAl10Fe	AB1		БрА9Ж3Л	AlBC1	C95200
17	ZCuAl10Fe3Mn2		G-CuAl10Fe			БрА10Ж3Мц2		C955100
18	ZCuZn38		G-CuZn38Al	DCB1	CuZn40	ЛЦ40С	HBsC1	C85500
19	ZCuZn25Al6Fe3Mn3	CuZn25Al6Fe3Mn3	G-CuZn25Al5	HTB3	CuZn23Al4	ЛЦ23А6Ж3Мц2	HBsC4C	C86300
20	ZCuZn26Al4Fe3Mn3	CuZn26Al4Fe3Mn3	G-CuZn25Al5	HTB3	CuZn23Al4	ЛЦ23А6Ж3Мц2	HBsC4C	C86300
21	ZCUZn31Al2					ЛЦ30А3		C86700
22	ZCuZn35Al2Mn2Fe1	CuSn35AlFeMn	G-CuZn35Al2	HTB1	CuZn30AlFeMn	ЛЦ40Мц3А	HBsC2	C86500
23	ZCuZn38Mn2Pb2	CuZn40Pb				ЛЦ38Мц2С2	HBsC1C	C86700
24	ZCuZn40Mn2					ЛЦ40Мц1.5	HBsC2C	C86500
25	ZCuZn40MN3Fe1	CuZn35AlFeMn				ЛЦ40Мц3Ж	HBsC2	C86800
26	ZCuZn33Pb2	CuZn33Pb2		SCB3			HBsC1	C85400
27	ZCuZn40Pb2		G-CuZn37Pb	PCB1	CuZn40	ЛЦ40Сд	HBsC1	C85700
28	ZCuZn16Si4		G-CuZn15Si4			ЛЦ16К4	SzBC3	C87400

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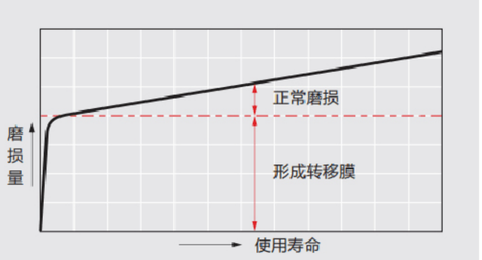
相关设计

◎ 影响使用寿命的因素

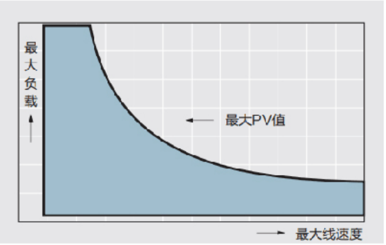
磨损量与使用寿命如下因素有关:

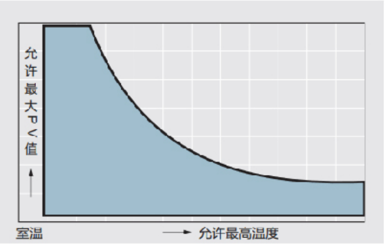
- 实际负载
- 线速度
- PV值
- 润滑条件
- 对偶轴材料、表面硬度、粗糙度和温度等



◎ PV值的计算

PV是指轴承在一定的承载和线速度条件下的乘积之和，PV值与轴承的使用寿命成反比例关系；因此建议设计时尽量使用比较低的安全的PV值，以确保轴承会有更长的使用寿命；虽然样本中有明确了各类材料的PV值但是这些都是在径向旋转条件下测得的，而事实上设计人员在设计轴承寿命时还需要考虑很多因素。另外环境温度是一个必须要考虑的参数，由于温度的上升会导致轴承与座孔间的配合间隙发生变化，轴与轴承内孔的配合公差也会发生变化。





		Load 负载 P N/mm² {kgf/cm²}	Velocity V 线速度 m/s {m/min}	PV Value PV值 N/mm²*m/s {kgf/cm²*m/min}
1. 旋转运动	轴套	$\frac{F}{dL}$ $\left\{\frac{10^2F}{dL}\right\}$	$\frac{\pi dn}{10^3}$ $\left\{\frac{\pi dn}{10^3}\right\}$	$\frac{\pi Fn}{10^3L}$ $\left\{\frac{\pi Fn}{10L}\right\}$
2. 摇摆运动	轴套	$\frac{F}{dL}$ $\left\{\frac{10^2F}{dL}\right\}$	$\frac{dc\theta}{10^3}$ $\left\{\frac{\pi dc\theta}{180\times10^3}\right\}$	$\frac{Fc\theta}{10^3L}$ $\left\{\frac{\pi Fc\theta}{180\times10^2L}\right\}$
3. 往复运动	轴套	$\frac{F}{dL}$ $\left\{\frac{10^2F}{dL}\right\}$	$\frac{2cS}{10^3}$ $\left\{\frac{2cS}{10^3}\right\}$	$\frac{2FcS}{10^3dL}$ $\left\{\frac{FcS}{5dL}\right\}$
4. 推力运动	旋转 垫片	$\frac{4F}{\pi(D^2-d^2)}$ $\left\{\frac{400F}{\pi(D^2-d^2)}\right\}$	$\frac{\pi Dn}{10^3}$ $\left\{\frac{\pi Dn}{10^3}\right\}$	$\frac{4FDn}{10^3(D^2-d^2)}$ $\left\{\frac{4FDn}{10(D^2-d^2)}\right\}$
	摇摆 垫片	$\frac{4F}{\pi(D^2-d^2)}$ $\left\{\frac{400F}{\pi(D^2-d^2)}\right\}$	$\frac{Dc\theta}{10^3}$ $\left\{\frac{\pi Dc\theta}{180\times10^3}\right\}$	$\frac{4FDc\theta}{10^3\pi(D^2-d^2)}$ $\left\{\frac{4FDc\theta}{180\times10(D^2-d^2)}\right\}$
5. 平面滑动	平板	$\frac{F}{BL}$ $\left\{\frac{10^2F}{WL}\right\}$	$\frac{2cS}{10^3}$ $\left\{\frac{2cS}{10^3}\right\}$	$\frac{2FcS}{10^3BL}$ $\left\{\frac{FcS}{5WL}\right\}$

- F:承载 .... N {kgf}
- N:转数 .... S^{-1} {rpm}
- c:往复或摇摆数 .... S^{-1} {cpm}
- S:行程 .... m{mm}
- θ:摇摆角度 .... rad
- d:轴承内径 .... mm{mm}
- D:轴承外径 .... mm{mm}
- L:轴承高度 .... mm{mm}
- W:轴承宽度 .... mm{mm}

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