

## MSB-FB090、FB092卷制轴承 FB090 , FB092 Bronze Wrapped Bushes

该产品采用特殊配方的高密度铜合金带材为基体，表面可以按用户要求轧制菱形或球形的油穴、油槽。

This is a kind of bushes wrapped by bronze strip. The bronze is of particular formulation with high specific gravity and on its surface may be in processed spherical or diamond shaped indentations or oil grooves as required by customers.

轴套材料的合金组成 Alloy Compositions of Bush Materials

型号 TYPES	CU%	Sh%	P%	Pb%	Zn%
MSB-FB090					
MSB-FB092	93.4	6.5	0.4	/	/

机械性能 Mechanical Properties

型号 TYPES	拉伸强度 Tensile Strength N/mm <sup>2</sup>	屈服强度 Yield Strength N/mm <sup>2</sup>	伸长率 Elongation %	布氏硬度 Brinnal Hardness HB
MSB-FB090				
MSB-FB092	450	250	55	105

物理性能 Physical properties

型号 TYPES	比重 Sp.gr g/cm <sup>3</sup>	热胀系数 Linear expansion 20-300 10 <sup>-3</sup>	导热系数 Thermal conductivity 20 w/m.k	导电率 Electric conductivity 20 w/onm.mm <sup>2</sup>	弹性模量 Elastic Modulus kn/mm <sup>2</sup>
MSB-FB090					
MSB-FB092	89	182	60	6.5	115

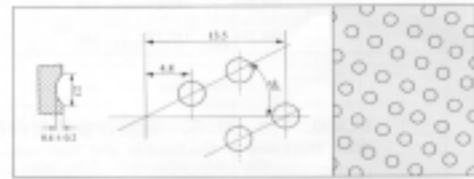
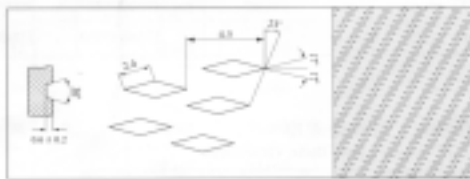
承载能力 load capacity

型号 TYPES	摇摆运动或低速运动 Oscillating or low speed motion v 0.01m/s	旋转运动 Revolutionary motion v 2m/s
MSB-FB090		
MSB-FB092	10000-12000 N/cm <sup>2</sup>	3500- 4000 N/cm <sup>2</sup>

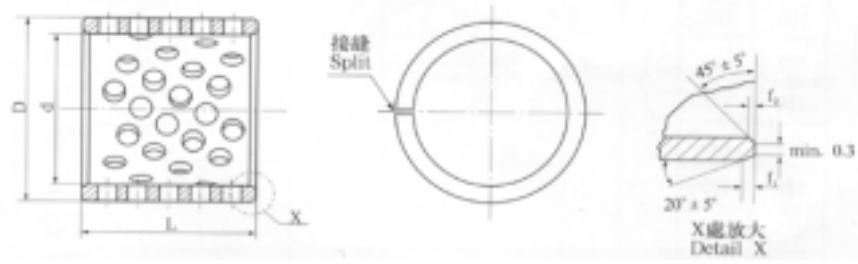
轴套公差 Bushes Sizes And Their Tolerances

公称尺寸 Nominal Sizes	10	18	30	50	80	120	180	250
外径公差 Tolerance (outside Dia)	+0.065 +0.030	+0.075 +0.035	+0.085 +0.045	+0.100 +0.055	+0.120 +0.070	+0.170 +0.100	+0.210 +0.130	+0.260 +0.170
压入H7座孔后 Bush Bore Tolerance (pressed in Hosing)	+0.043 0	+0.052 0	+0.062 0	+0.074 0	+0.087 0	+0.10 0	+0.115 0	+0.130 0

轴套油穴、油坑形式 Types of Oil Indentations



**MSB-FB092 卷制标准轴承**  
Standard Series of FB092 Bushes

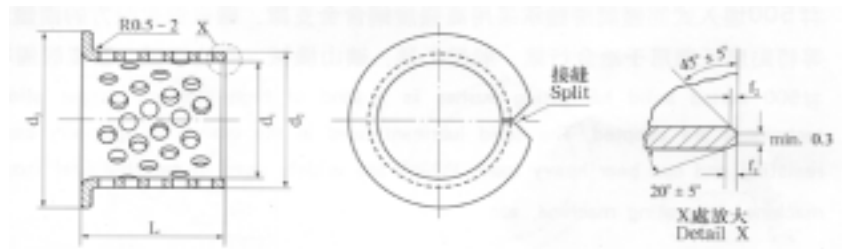


unit: mm

d	D	f1	f2	长度 $L_{-0.40}^0$														
				10	15	20	25	30	35	40	50	60	70	80	90	100		
10	12	0.5	0.3	FB092	FB092	FB092												
				1010	1015	1020												
				12	14	FB092	FB092	FB092										
						1210	1215	1220										
						14	16	FB092	FB092	FB092	FB092							
								1410	1415	1420	1425							
15	17	FB092	FB092	FB092	FB092													
		1510	1515	1520	1525													
16	18	FB092	FB092	FB092	FB092													
		1610	1615	1620	1625													
18	20	FB092	FB092	FB092	FB092													
		1810	1815	1820	1825													
20	23	0.8	0.4	FB092	FB092	FB092	FB092											
				2010	2015	2020	2025											
				22	25	FB092	FB092	FB092	FB092	FB092								
						2210	2215	2220	2225	2230								
				24	27	FB092	FB092	FB092	FB092	FB092								
						2415	2420	2425	2430									
25	28	FB092	FB092	FB092	FB092													
		2515	2520	2525	2530													
28	31	FB092	FB092	FB092	FB092													
		2815	2820	2825	2830													
30	34	1	0.6	FB092	FB092	FB092	FB092	FB092	FB092	FB092								
				3015	3020	3025	3030	3035	3040									
				FB092	FB092	FB092	FB092	FB092	FB092									
				3215	3220	3225	3230	3235	3240									
32	36	FB092	FB092	FB092	FB092	FB092	FB092											
		3515	3520	3525	3530	3535	3540											
40	44	FB092	FB092	FB092	FB092	FB092	FB092	FB092										
		4020	4025	4030	4035	4040	4050											
45	50	1.2	0.8	FB092	FB092	FB092	FB092	FB092	FB092	FB092								
				4520	4525	4530	4535	4540	4550									
				FB092	FB092	FB092	FB092	FB092	FB092	FB092								
				5020	5025	5030	5035	5040	5050	5060								
				FB092	FB092	FB092	FB092	FB092	FB092	FB092								
				5520	5525	5530	5535	5540	5550	5560								
60	65	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092								
		6025	6030	6035	6040	6050	6060	6070										
65	70	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092								
		6530	6535	6540	6550	6560	6570											
70	75	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092							
		7030	7035	7040	7050	7060	7070	7080										
75	80	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092							
		7530	7535	7540	7550	7560	7570	7580										
80	85	1.4	0.8	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092							
				8030	8035	8040	8050	8060	8070	8080								
				FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092							
				8530	8535	8540	8550	8560	8570	8580	8590							
85	90	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092								
		9030	9035	9040	9050	9060	9070	9080	9090									
90	95	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092							
		9030	9035	9040	9050	9060	9070	9080	9090									
95	100	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092	FB092						
		9540	9550	9560	9570	9580	9590	95100										

d	D	f1	f2	长度 $L_{-0.40}^0$									
				25	30	35	40	50	60	70	80	90	100
100	105	1.4	0.8					FB092 10050	FB092 10060	FB092 10070	FB092 10080	FB092 10090	FB092 10100
105	110							FB092 10550	FB092 10560	FB092 10570	FB092 10580	FB092 10590	FB092 10600
110	115							FB092 11050	FB092 11060	FB092 11070	FB092 11080	FB092 11090	FB092 11100
115	120							FB092 11550	FB092 11560	FB092 11570	FB092 11580	FB092 11590	FB092 11600
120	125								FB092 12060	FB092 12070	FB092 12080	FB092 12090	FB092 12100
125	130								FB092 12560	FB092 12570	FB092 12580	FB092 12590	FB092 12600
130	135								FB092 13060	FB092 13070	FB092 13080	FB092 13090	FB092 13100
135	140								FB092 13560	FB092 13570	FB092 13580	FB092 13590	FB092 13600
140	145								FB092 14060	FB092 14070	FB092 14080	FB092 14090	FB092 14100
145	150								FB092 14560	FB092 14570	FB092 14580	FB092 14590	FB092 14600
150	155								FB092 15060	FB092 15070	FB092 15080	FB092 15090	FB092 15100
155	160								FB092 15560	FB092 15570	FB092 15580	FB092 15590	FB092 15600
160	165								FB092 16060	FB092 16070	FB092 16080	FB092 16090	FB092 16100
165	170								FB092 16560	FB092 16570	FB092 16580	FB092 16590	FB092 16600
170	175								FB092 17060	FB092 17070	FB092 17080	FB092 17090	FB092 17100
175	180								FB092 17560	FB092 17570	FB092 17580	FB092 17590	FB092 17600
180	185								FB092 18060	FB092 18070	FB092 18080	FB092 18090	FB092 18100
185	190								FB092 18560	FB092 18570	FB092 18580	FB092 18590	FB092 18600
190	195								FB092 19060	FB092 19070	FB092 19080	FB092 19090	FB092 19100
195	200								FB092 19560	FB092 19570	FB092 19580	FB092 19590	FB092 19600
200	205								FB092 20060	FB092 20070	FB092 20080	FB092 20090	FB092 20100
205	210								FB092 20560	FB092 20570	FB092 20580	FB092 20590	FB092 20600
210	215								FB092 21060	FB092 21070	FB092 21080	FB092 21090	FB092 21100
215	220								FB092 21560	FB092 21570	FB092 21580	FB092 21590	FB092 21600
220	225								FB092 22060	FB092 22070	FB092 22080	FB092 22090	FB092 22100
225	230								FB092 22560	FB092 22570	FB092 22580	FB092 22590	FB092 22600
230	235								FB092 23060	FB092 23070	FB092 23080	FB092 23090	FB092 23100
240	245								FB092 24060	FB092 24070	FB092 24080	FB092 24090	FB092 24100
250	255								FB092 25060	FB092 25070	FB092 25080	FB092 25090	FB092 25100
260	265								FB092 26060	FB092 26070	FB092 26080	FB092 26090	FB092 26100
270	275						FB092 27060	FB092 27070	FB092 27080	FB092 27090	FB092 27100		
280	285						FB092 28060	FB092 28070	FB092 28080	FB092 28090	FB092 28100		
290	295						FB092 29060	FB092 29070	FB092 29080	FB092 29090	FB092 29100		
300	305						FB092 30060	FB092 30070	FB092 30080	FB092 30090	FB092 30100		

**MSB-FB092 标准翻边轴承**  
Standard Series of FB092 Flanged Bushes



d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	f1	f2	长度 L <sub>-0.40</sub> <sup>0</sup>																		
					15	20	25	30	35	40	50	60	70	80	90								
25	28	35	0.8	0.4	FBF092 25150	FBF092 25200	FBF092 25250																
30	34	45	1.0	0.6		FBF092 30200	FBF092 30250	FBF092 30300															
35	39	50				FBF092 35200	FBF092 35250	FBF092 35300	FBF092 35350														
40	44	55					FBF092 40250	FBF092 40300	FBF092 40350	FBF092 40400													
45	50	60	1.2	0.8			FBF092 45300	FBF092 45350	FBF092 45400	FBF092 45500													
50	55	65					FBF092 50300	FBF092 50350	FBF092 50400	FBF092 50500													
55	60	70					FBF092 55300	FBF092 55350	FBF092 55400	FBF092 55500													
60	65	75					FBF092 60300	FBF092 60350	FBF092 60400	FBF092 60500	FBF092 60600												
65	70	80					FBF092 65300	FBF092 65350	FBF092 65400	FBF092 65500	FBF092 65600												
70	75	85							FBF092 70350	FBF092 70400	FBF092 70500	FBF092 70600	FBF092 70700										
75	80	90							FBF092 75350	FBF092 75400	FBF092 75500	FBF092 75600	FBF092 75700										
80	85	100			1.4	0.8			FBF092 80350	FBF092 80400	FBF092 80500	FBF092 80600	FBF092 80700	FBF092 80800									
90	95	110										FBF092 90500	FBF092 90600	FBF092 90700	FBF092 90800	FBF092 90900							
100	105	120										FBF092 100500	FBF092 100600	FBF092 100700	FBF092 100800	FBF092 100900							
110	115	130								FBF092 110500	FBF092 110600	FBF092 110700	FBF092 110800	FBF092 110900									
120	125	140								FBF092 120500	FBF092 120600	FBF092 120700	FBF092 120800	FBF092 120900									
130	135	155									FBF092 130600	FBF092 130700	FBF092 130800	FBF092 130900									
140	145	165									FBF092 140600	FBF092 140700	FBF092 140800	FBF092 140900									
150	155	180									FBF092 150600	FBF092 150700	FBF092 150800	FBF092 150900									
160	165	190									FBF092 160600	FBF092 160700	FBF092 160800	FBF092 160900									
170	175	200									FBF092 170600	FBF092 170700	FBF092 170800	FBF092 170900									
180	185	215									FBF092 180600	FBF092 180700	FBF092 180800	FBF092 180900									
190	195	225									FBF092 190600	FBF092 190700	FBF092 190800	FBF092 190900									
200	205	235									FBF092 200600	FBF092 200700	FBF092 200800	FBF092 200900									
225	230	260									FBF092 225600	FBF092 225700	FBF092 225800	FBF092 225900									
250	255	290							FBF092 250600	FBF092 250700	FBF092 250800	FBF092 250900											
265	270	305							FBF092 265600	FBF092 265700	FBF092 265800	FBF092 265900											
285	290	325							FBF092 285600	FBF092 285700	FBF092 285800	FBF092 285900											
300	305	340							FBF092 300600	FBF092 300700	FBF092 300800	FBF092 300900											