

# BUSHING FASTENERS SERIES

Standard No.	Length L±1	W±1	Wall thickness S <sub>1</sub> -0.05
JX-SF-2SP-1	500	150	1.0
JX-SF-2SP-1.5	500	150	1.5
JX-SF-2SP-2	500	150	2.0
JX-SF-2SP-2.5	500	150	2.5

## JX-JF Bimetal Bushing

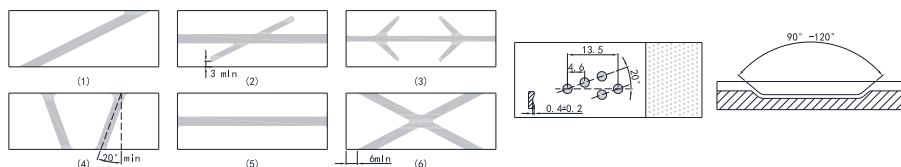
### Product introduction

JX-JF-800 bi-metal bushing is backed on low carbon steel, sintered with CuPb10Sn10 or CuSn6Zn6Pb3 bronze powder, which has good wear resistance high load capacity, and excellent fatigue properties. The inside surface can be machined with oil grooves and pockets. Application: automotive, balance suspensions of heavy-duty trucks, power steering, pedal, king-pin, co-connecting rod, rock arm, mechanical handling, lifting equipment, track roller, auto chassis, agricultural machines, hydraulic pump side plates, and so on.

### The use of parameters

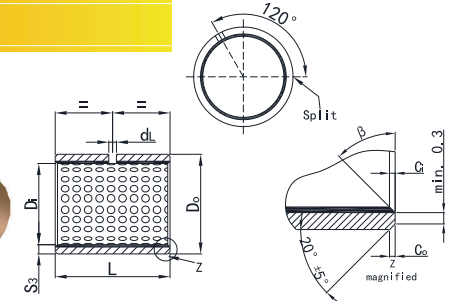
Parameters	JX-JF 800	JX-JF 720	JX-JF 700	JX-JF 20	JX-FB08G
	Bimetal Bushing	Bimetal Bushing	Bimetal Bushing	Bimetal Bushing	Bimetal Bushing
					
Material type	CuPb10Sn10/ CuSn6Zn6Pb3	CuPb24Sn4	CuPb30	AlSn20Cu	CuPb10Sn10+ Graphite
Hardness of bronze alloy	70-100HB	45-70HB	30-45HB	30-40HB	60-90HB
Max. dynamic Load	65N/mm <sup>2</sup>	38N/mm <sup>2</sup>	25N/mm <sup>2</sup>	30N/mm <sup>2</sup>	90N/mm <sup>2</sup>
Mpa *Sapphire*fatigue class	125	115	105	105	-
Friction coefficient(oil)	0.06-0.14	0.06-0.16	0.08-0.16	0.08-0.17	<0.08
PV limit(Grease)	2.8N/mm <sup>2</sup> .M/s	2.8N/mm <sup>2</sup> .M/s	2.5N/mm <sup>2</sup> .M/s	-	2.8N/mm <sup>2</sup> .M/s
PV limit(Oil)	10N/mm <sup>2</sup> .M/s	10N/mm <sup>2</sup> .M/s	8N/mm <sup>2</sup> .M/s	6N/mm <sup>2</sup> .M/s	10N/mm <sup>2</sup> .M/s
Tmax. temperature	260°C	200°C	170°C	150°C	200°C
Load limit	150 N/mm <sup>2</sup>	130 N/mm <sup>2</sup>	120 N/mm <sup>2</sup>	100 N/mm <sup>2</sup>	90 N/mm <sup>2</sup>
Speed limit V max.	5 m/s	10 m/s	15 m/s	25 m/s	5 m/s
Hardness of mating surface	53 HRC	50 HRC	270 HRC	250 HRC	53 HRC
Tensile strength	150 N/mm <sup>2</sup>	150 N/mm <sup>2</sup>	200 N/mm <sup>2</sup>	200 N/mm <sup>2</sup>	185 N/mm <sup>2</sup>

### Types for bimetal bushing grooves & indentations



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## JX-JF Bimetal Bushing



### ID and OD chamfers

S <sub>1</sub>	C <sub>1</sub>	C <sub>1</sub>	β
0.75	0.5±0.3	0.25±0.2	35°±5°
1.0	0.6±0.3	0.30±0.2	35°±5°
1.5	0.7±0.3	0.50±0.2	35°±5°

S <sub>1</sub>	C <sub>1</sub>	C <sub>1</sub>	β
2.00	1.2±0.4	0.5±0.3	35°±5°
2.50	1.8±0.6	0.6±0.3	45°±5°

Size	D <sub>1</sub> Φd	D <sub>2</sub> ΦD	Shaft h8 D <sub>1</sub>	Housing H7 D <sub>2</sub>	After fixed D <sub>1a</sub>	Clearance D <sub>2c</sub>	Wall thickness S <sub>1</sub>	Oil hole d <sub>1</sub>	Length L <sup>0-0.40</sup>								
									10	15	20	25	30	40	50		
JX-JF-10	10	12	10 <sup>-0.022</sup>	12 <sup>+0.018</sup>		0.170 0.010	0.995 0.935	4	1010	1015	1020						
JX-JF-12	12	14	12 <sup>-0.027</sup>	14 <sup>+0.018</sup>		0.175 0.010			1210	1215	1220						
JX-JF-14	14	16	14 <sup>-0.027</sup>	16 <sup>+0.018</sup>	+0.148 +0.010				1410	1415	1420						
JX-JF-15	15	17	15 <sup>-0.027</sup>	17 <sup>+0.018</sup>					1510	1515	1520						
JX-JF-16	16	18	16 <sup>-0.027</sup>	18 <sup>+0.018</sup>					1610	1615	1620						
JX-JF-18	18	20	18 <sup>-0.027</sup>	20 <sup>+0.021</sup>	+0.154 +0.010	0.178 0.010			1810	1815	1820	1825					
JX-JF-20	20	23	20 <sup>-0.033</sup>	23 <sup>+0.021</sup>			2010	2015	2020	2025							
JX-JF-22	22	25	22 <sup>-0.033</sup>	25 <sup>+0.021</sup>	+0.161 +0.020	0.194 0.020	2210	2215	2220	2225							
JX-JF-24	24	27	24 <sup>-0.033</sup>	27 <sup>+0.021</sup>			2410	2415	2420	2425	2430						
JX-JF-25	25	28	25 <sup>-0.033</sup>	28 <sup>+0.021</sup>			2515	2520	2525	2530							
JX-JF-26	26	30	26 <sup>-0.033</sup>	30 <sup>+0.021</sup>	+0.181 +0.040	0.214 0.040	2615	2620	2625	2630							
JX-JF-28	28	32	28 <sup>-0.033</sup>	32 <sup>+0.025</sup>		0.218 0.040	2815	2820	2825	2830	2840						
JX-JF-30	30	34	30 <sup>-0.033</sup>	34 <sup>+0.025</sup>			3015	3020	3025	3030	3040						
JX-JF-32	32	36	32 <sup>-0.039</sup>	36 <sup>+0.025</sup>	+0.185 +0.040		3215	3220	3225	3230	3240						
JX-JF-35	35	39	35 <sup>-0.039</sup>	39 <sup>+0.025</sup>		0.224 0.040		3520	3525	3530	3540	3550					
JX-JF-38	38	42	38 <sup>-0.039</sup>	42 <sup>+0.025</sup>			3820	3825	3830	3840	3850						
JX-JF-40	40	44	40 <sup>-0.039</sup>	44 <sup>+0.025</sup>			4020	4025	4030	4040	4050						

Size	D <sub>1</sub> Φd	D <sub>2</sub> ΦD	Shaft h8 D <sub>1</sub>	Housing H7 D <sub>2</sub>	After fixed D <sub>1a</sub>	Clearance D <sub>2c</sub>	Wall thickness S <sub>1</sub>	Oil hole d <sub>1</sub>	Length L <sup>0-0.40</sup>								
									25	30	40	50	60	80	90	100	
JX-JF-45	45	50	45 <sup>-0.039</sup>	50 <sup>+0.025</sup>	+0.225 +0.080	0.264 0.080	2.460 2.400	8	4525	4530	4540	4550					
JX-JF-50	50	55	50 <sup>-0.039</sup>	55 <sup>+0.030</sup>		0.269 0.080			5030	5040	5050	5060					
JX-JF-55	55	60	55 <sup>-0.046</sup>	60 <sup>+0.030</sup>					5530	5540	5550	5560					
JX-JF-60	60	65	60 <sup>-0.046</sup>	65 <sup>+0.030</sup>	+0.230 +0.080	0.276 0.080			6030	6040	6050	6060					
JX-JF-65	65	70	65 <sup>-0.046</sup>	70 <sup>+0.030</sup>					6530	6540	6550	6560					
JX-JF-70	70	75	70 <sup>-0.046</sup>	75 <sup>+0.030</sup>					7030	7040	7050	7060	7080				
JX-JF-75	75	80	75 <sup>-0.046</sup>	80 <sup>+0.030</sup>			7530	7540	7550	7560	7580						
JX-JF-80	80	85	80 <sup>-0.046</sup>	85 <sup>+0.035</sup>		0.281 0.080	8030	8040	8050	8060	8080	8090					
JX-JF-85	85	90	85 <sup>-0.054</sup>	90 <sup>+0.035</sup>			8530	8540	8550	8560	8580	8590	85100				
JX-JF-90	90	95	90 <sup>-0.054</sup>	95 <sup>+0.035</sup>			9040	9050	9060	9080	9090	90100					
JX-JF-95	95	100	95 <sup>-0.054</sup>	100 <sup>+0.035</sup>	+0.235 +0.080			9550	9560	9580	9590	95100					
JX-JF-100	100	105	100 <sup>-0.054</sup>	105 <sup>+0.035</sup>				10050	10060	10080	10090	100100					
JX-JF-105	105	110	105 <sup>-0.054</sup>	110 <sup>+0.035</sup>		0.289 0.080		10550	10560	10580	10590	105100					
JX-JF-110	110	115	110 <sup>-0.054</sup>	115 <sup>+0.035</sup>				11050	11060	11080	11090	110100					
JX-JF-115	115	120	115 <sup>-0.054</sup>	120 <sup>+0.035</sup>				11550	11560	11580	11590	115100					
JX-JF-120	120	125	120 <sup>-0.054</sup>	125 <sup>+0.040</sup>				12050	12060	12080	12090	120100					
JX-JF-125	125	130	125 <sup>-0.063</sup>	130 <sup>+0.040</sup>					12560	12580	12590	125100					
JX-JF-130	130	135	130 <sup>-0.063</sup>	135 <sup>+0.040</sup>	+0.240 +0.080	0.303 0.080			13060	13080	13090	130100					
JX-JF-135	135	140	135 <sup>-0.063</sup>	140 <sup>+0.040</sup>					13560	13580	13590	135100					
JX-JF-140	140	145	140 <sup>-0.063</sup>	145 <sup>+0.040</sup>					14060	14080	14090	140100					
JX-JF-150	150	150	150 <sup>-0.063</sup>	155 <sup>+0.040</sup>					15060	15080	15090	150100					