

BUSHING FASTENERS SERIES

JX-FB Bronze Wrapped Bushing

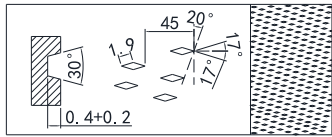
Product introduction

Bronze-wrapped bushing is made of a cold formable homogenous bronze (CuSn8), which will obtain excellent material properties. FB090 is fitted with diamond-shaped lubrication indents inside, and FB092 is fitted with regular holes on the bushing surface. These indents and holes serve as lubricant reservoirs to rapidly build up a lubrication film in the start movement and thereby reduce the start friction. FB series bushings can be used in hoisting machines and other construction machines, automobiles, tractors, trucks, harvest machines, forest machines so on.

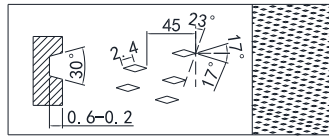
The use of parameters

Parameters	FB090	FB091	FB092	FB094	FB09G
	Bronze Wrapped Bushing	Copper Wrapped Bushing	Bronze Wrapped Bushing	Bronze Wrapped Bushing with Seals	Bronze+Graphite Wrapped Bushing
Density	8.9g/cm ³	8.4g/cm ³	8.9g/cm ³	8.9g/cm ³	8.3g/cm ³
Pressur resistance strenght	470N/mm ²	440N/mm ²	470N/mm ²	470N/mm ²	470N/mm ²
Coefficient of heat conduction	60W/m.k	71W/m.k	60W/m.k	60W/m.k	58W/m.k
Linear expansion coefficient	18.5x10 ⁻⁶ /K	19.2x10 ⁻⁶ /K	18.5x10 ⁻⁶ /K	18.5x10 ⁻⁶ /K	18.5x10 ⁻⁶ /K
Hardness	90-120 HB	80-110 HB	90-120 HB	90-120 HB	90-120 HB
Elongation	55%	30%	55%	55%	55%
Alloy Materoal	CuSn8P	CuZn31Si	CuSn8P	CuSn8P	CuSn8P
其他可选材料 Other material	CuSn6.5P		CuSn6.5P	CuSn6.5P	CuSn6.5P

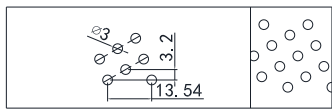
Types of oil pockets



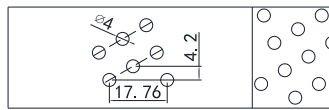
FB090 (oil pockets)
Applicable inner diameter ≤ Bearing diameter for φ25 (ID ≤ φ25)



FB090 (oil holes)
Applicable inner diameter > Bearing diameter for φ22 (ID > φ22)



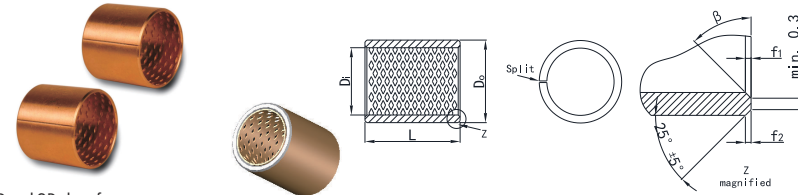
FB092 (oil pockets)
Applicable inner diameter ≤ Bearing diameter for φ25 (ID ≤ φ25)



FB092 (oil holes)
Applicable inner diameter > Bearing diameter for φ25 (ID > φ25)

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ID and OD chamfers

S ₂	C ₂	C ₁	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 ₂	C ₂	C ₁	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	External Diameter D	Housing Bore(H7)	Shaft Dia. f7	I.D.after fixed	Wall Thickness	L																
						10	15	20	25	30	35	40	50	60	70	80	90	100				
JX-FB-12	12	12	10	10	1	●	●	●														
JX-FB-14	14	14	12	12	1	●	●	●	●													
JX-FB-16	16	16	14	14	1	●	●	●	●	●												
JX-FB-17	17	17	15	15	1	●	●	●	●	●												
JX-FB-18	18	18	16	16	1	●	●	●	●	●												
JX-FB-20	20	20	18	18	1	●	●	●	●	●												
JX-FB-23	23	23	20	20	1.5	●	●	●	●	●												
JX-FB-25	25	25	22	22	1.5	●	●	●	●	●												
JX-FB-27	27	27	24	24	1.5	●	●	●	●	●												
JX-FB-28	28	28	25	25	1.5	●	●	●	●	●												
JX-FB-32	32	32	28	28	2	●	●	●	●	●												
JX-FB-34	34	34	30	30	2	●	●	●	●	●												
JX-FB-36	36	36	32	32	2	●	●	●	●	●												
JX-FB-39	39	39	35	35	2	●	●	●	●	●												
JX-FB-44	44	44	40	40	2	●	●	●	●	●												
JX-FB-50	50	50	45	45	2	●	●	●	●	●												
JX-FB-55	55	55	50	50	2	●	●	●	●	●												
JX-FB-60	60	60	55	55	2	●	●	●	●	●												
JX-FB-65	65	65	60	60	2	●	●	●	●	●												
JX-FB-70	70	70	65	65	2	●	●	●	●	●												
JX-FB-75	75	75	70	70	2	●	●	●	●	●												
JX-FB-80	80	80	75	75	2	●	●	●	●	●												
JX-FB-85	85	85	80	80	2	●	●	●	●	●												
JX-FB-90	90	90	85	85	2	●	●	●	●	●												
JX-FB-95	95	95	90	90	2	●	●	●	●	●												
JX-FB-100	100	100	95	95	2	●	●	●	●	●												
JX-FB-105	105	105	100	100	2	●	●	●	●	●												
JX-FB-110	110	110	105	105	2	●	●	●	●	●												
JX-FB-115	115	115	110	110	2	●	●	●	●	●												
JX-FB-120	120	120	115	115	2	●	●	●	●	●												
JX-FB-125	125	125	120	120	2	●	●	●	●	●												
JX-FB-130	130	130	125	125	2	●	●	●	●	●												
JX-FB-135	135	135	130	130	2	●	●	●	●	●												
JX-FB-140	140	140	135	135	2	●	●	●	●	●												
JX-FB-145	145	145	140	140	2	●	●	●	●	●												
JX-FB-150	150	150	145	145	2	●	●	●	●	●												
JX-FB-155	155	155	150	150	2	●	●	●	●	●												
JX-FB-160	160	160	155	155	2	●	●	●	●	●												

Bronze rolled bearings JX-FB bushing material using a special formula of high-density copper alloy as a substrate, the surface can be rolled according to user requirements with diamond or hemispherical oil holes, and oil grooves. With high density, high bearing pressure, good wear resistance, long service life, and other advantages, replacing the traditional casting of copper bushings, can reduce the volume of machinery, and reduce costs. Products have been widely used in lifting machinery, construction machinery, automobiles, the tractor industry, machine tool industry, and mining machinery, but also can be made into shaft tile, flap bushings, thrust washers and bowls, and other forms!