

## JDB SOLID LUBRICATING BEARING

### FEATURES

JDB-1 solid lubricant embedded bushing is a new type made from strong brass and homogeneously embedded with solid lubricant in its body. It breaks through the limit of general bearing whose lubrication depends on oil film. So it is suitable for high temperature, heavy duty, anti-corrosion, or where oil is hard to be introduced. Its performance doubles both on hardness and wear-friction. It is now widely applied in successive casting machines, steel rollers in metallography, mineral machine, ships, steam turbine, hydraulic turbines and injection molding machines for plastics.

JDB-2 Suitable for low load position, wear performance worsens greatly when under middle or high load. Can be applied in furnace door linkage, furnace, conveyor, tool machines, light industries, etc.






JDB-3 Suitable for low load position. Wear performance worsens when under middle or high load. The mating layer is

same as JDB-2 so that more cost-saving than JOB-2 whereas compression strength increases and weldable. Most suitable for dry position in construction, metallurgical machines, conveyor machines etc.

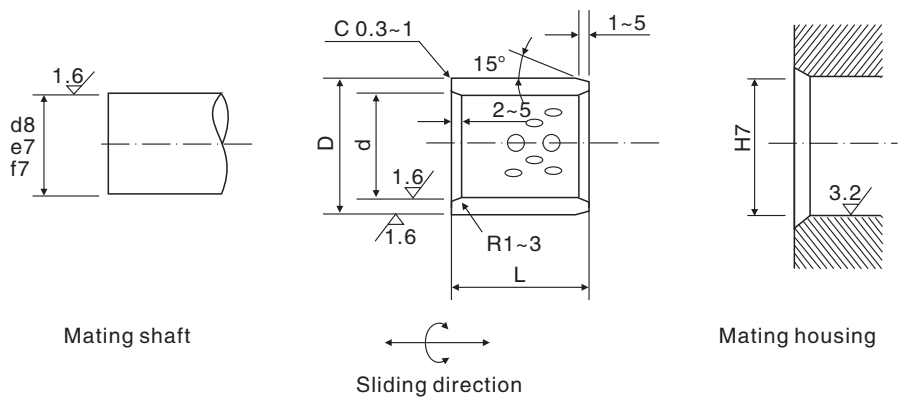
JDB-4 Very good performance when under low load. Not suitable for middle and high load. A typical cost saving material. can substitute JDB-2 to be applied in the position without high requirements such as die guider, plastic injection machines etc.

JDB-5 Can be used under low, middle and high load. Due to its superb high hardness, when under high load, it over performs than other JDB type. Not suitable for water. Acid, alkali circumstances. Most suitable for the supporting position of hoisting machine, e.g. Bulldozer supporter, hoister supporter, reeling machine supporter Etc.

### JDB MAIN TECHNICAL INDEX

Type	JDB-1	JDB-2	JDB-3	JDB-4	JDB-5
Sketch map					
Base material	CuZn24Al6	CuSn6Zn6Pb3	STEEL CuSn6Zn6Pb3	STEEL HT-250	CuCr150
Base hardness	HB 230 (HB 270)	HB 90	HB 80	HB 210	HB 60
Friction coef(μ)	<0.16	<0.15	<0.14	<0.17	<0.17
Temp limit	300°C	350°C	300°C	400°C	350°C
Dynamic load limit	100 N/mm <sup>2</sup>	60 N/mm <sup>2</sup>	70 N/mm <sup>2</sup>	60 N/mm <sup>2</sup>	250 N/mm <sup>2</sup>
Load limit under 1m/min	25 N/mm <sup>2</sup>	15 N/mm <sup>2</sup>	25 N/mm <sup>2</sup>	15 N/mm <sup>2</sup>	70 N/mm <sup>2</sup>
Sliding velocity limit	Dry 0.40 m/s oil 5 m/s	2 m/s	2 m/s	0.5 m/s	0.1 m/s
PV limit	3.8N/mm <sup>2</sup> · m/s	0.5N/mm <sup>2</sup> · m/s	0.6N/mm <sup>2</sup> · m/s	0.8N/mm <sup>2</sup> · m/s	2.5N/mm <sup>2</sup> · m/s

Note: HB270 in JDB-1 is for high load application and can be supplied at customer requirements.

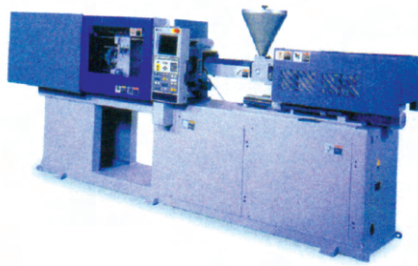


mm

d	D	I.D. F7	O.D. m6	L <sup>-0.10 -0.30</sup>														
				8	10	12	15	16	20	25	30	35	40	50	60	70	80	100
8	12	8 <sup>+0.028 +0.013</sup>	12 <sup>+0.018 +0.007</sup>	081208	081210	081212	081215											
10	14	10 <sup>+0.028 +0.013</sup>	14 <sup>+0.018 +0.007</sup>	101408	101410	101412	101415		101420									
12	18	12 <sup>+0.034 +0.016</sup>	18 <sup>+0.018 +0.007</sup>		121810	121812	121815	121816	121820	121825	121830							
13	19	13 <sup>+0.034 +0.016</sup>	19 <sup>+0.021 +0.008</sup>		131910		131915	131916										
14	20	14 <sup>+0.034 +0.016</sup>	20 <sup>+0.021 +0.008</sup>		142010	142012	142015		142020	142025	142030							
15	21	15 <sup>+0.034 +0.016</sup>	21 <sup>+0.021 +0.008</sup>		152110	152112	152115	152116	152120	152125	152130							
16	22	16 <sup>+0.034 +0.016</sup>	22 <sup>+0.021 +0.008</sup>			162212	162215	162216	162220	162225	162230	162235	162240					
18	24	18 <sup>+0.034 +0.016</sup>	24 <sup>+0.021 +0.008</sup>		162210	182412	182415	182416	182420	182425	182430	182435	182440					
20	28	20 <sup>+0.041 +0.020</sup>	28 <sup>+0.021 +0.008</sup>		202810	202812	202815	202816	202820	202825	202830	202835	202840	202850				
22	32	22 <sup>+0.041 +0.020</sup>	32 <sup>+0.025 +0.009</sup>			223212	223215		223220	223225								
25	33	25 <sup>+0.041 +0.020</sup>	33 <sup>+0.025 +0.009</sup>			253312	253315	253316	253320	253325	253330	253535	253540	253550	253560			
30	38	30 <sup>+0.041 +0.020</sup>	38 <sup>+0.025 +0.009</sup>			303812	303815		303820	303825	303830	303835	303840	303850	303860			
35	45	35 <sup>+0.050 +0.025</sup>	45 <sup>+0.025 +0.009</sup>						354520	354525	354530	354535	354540	354550	354560			
40	50	40 <sup>+0.050 +0.025</sup>	50 <sup>+0.025 +0.009</sup>								405030	405035	405040	405050	405060	405070	405080	
45	55	45 <sup>+0.050 +0.025</sup>	55 <sup>+0.030 +0.011</sup>								455530	455535	455540	455550	455560			
50	60	50 <sup>+0.050 +0.025</sup>	60 <sup>+0.030 +0.011</sup>								506030	506035	506040	506050	506060	506070	506080	
50	62	50 <sup>+0.050 +0.025</sup>	62 <sup>+0.030 +0.011</sup>								506230	506235	506240	506250	506260	506270		
50	65	50 <sup>+0.050 +0.025</sup>	65 <sup>+0.030 +0.011</sup>								506530		506540	506550	506560	506570	506580	5065100
55	70	55 <sup>+0.060 +0.030</sup>	70 <sup>+0.030 +0.011</sup>										557040	557050	557060	557070		
60	74	60 <sup>+0.060 +0.030</sup>	74 <sup>+0.030 +0.011</sup>								607430	607435	607440	607450	607460	607470	607480	

mm

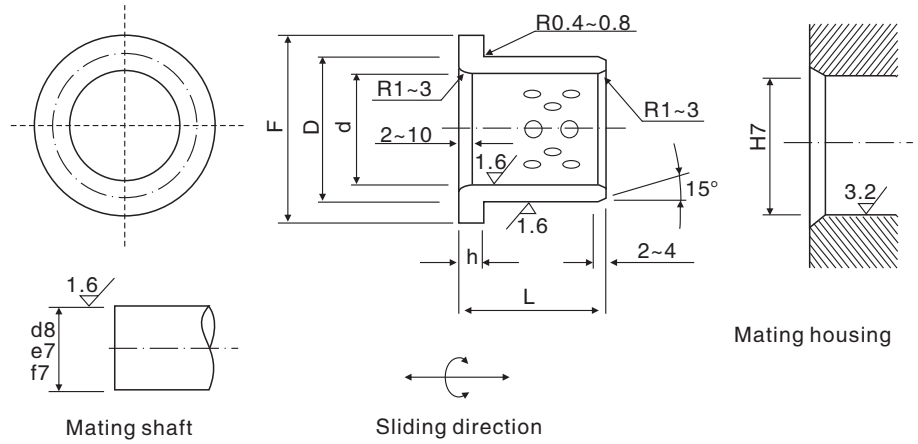
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				30	35	40	50	60	70	80	100	120	130	140	150
60	75	60 <sup>+0.060</sup> / <sub>+0.030</sub>	75 <sup>+0.030</sup> / <sub>+0.011</sub>	607530	607535	607540	607550	607560	607570	607580	6075100				
63	75	63 <sup>+0.060</sup> / <sub>+0.030</sub>	75 <sup>+0.030</sup> / <sub>+0.011</sub>					637560	637570	637580					
65	80	65 <sup>+0.060</sup> / <sub>+0.030</sub>	80 <sup>+0.030</sup> / <sub>+0.011</sub>				658050	658060	658070	658080					
70	85	70 <sup>+0.060</sup> / <sub>+0.030</sub>	85 <sup>+0.035</sup> / <sub>+0.013</sub>		708535	708540	708550	708560	708570	708580	7085100				
70	90	70 <sup>+0.060</sup> / <sub>+0.030</sub>	90 <sup>+0.035</sup> / <sub>+0.013</sub>				709050	709060	709070	709080					
75	90	75 <sup>+0.060</sup> / <sub>+0.030</sub>	90 <sup>+0.035</sup> / <sub>+0.013</sub>					759060	759070	759080	7590100				
75	95	75 <sup>+0.060</sup> / <sub>+0.030</sub>	95 <sup>+0.035</sup> / <sub>+0.013</sub>					759560	759570	759580	7595100				
80	96	80 <sup>+0.060</sup> / <sub>+0.030</sub>	96 <sup>+0.035</sup> / <sub>+0.013</sub>			809640	809650	809660	809670	809680	8096100	8096120			
80	100	80 <sup>+0.060</sup> / <sub>+0.030</sub>	100 <sup>+0.035</sup> / <sub>+0.013</sub>			8010040	8010050	8010060	8010070	8010080	80100100	80100120		80100140	
90	110	90 <sup>+0.071</sup> / <sub>+0.036</sub>	110 <sup>+0.035</sup> / <sub>+0.013</sub>	9010030			9011050	9011060	9011070	9011080	90110100	90110120			
100	120	100 <sup>+0.071</sup> / <sub>+0.036</sub>	120 <sup>+0.035</sup> / <sub>+0.013</sub>					10012060	10012070	10012080	100120100	100120120		100120140	
110	130	110 <sup>+0.071</sup> / <sub>+0.036</sub>	130 <sup>+0.040</sup> / <sub>+0.015</sub>							11013080	110130100	110130120			
120	140	120 <sup>+0.071</sup> / <sub>+0.036</sub>	140 <sup>+0.040</sup> / <sub>+0.015</sub>							12014080	120140100	120140120		120140140	
125	145	125 <sup>+0.083</sup> / <sub>+0.043</sub>	145 <sup>+0.040</sup> / <sub>+0.015</sub>								125145100	125145120			
130	150	130 <sup>+0.083</sup> / <sub>+0.043</sub>	150 <sup>+0.040</sup> / <sub>+0.015</sub>								130150100		130150130		
140	160	140 <sup>+0.083</sup> / <sub>+0.043</sub>	160 <sup>+0.040</sup> / <sub>+0.015</sub>								140160100			140160140	
150	170	150 <sup>+0.083</sup> / <sub>+0.043</sub>	170 <sup>+0.040</sup> / <sub>+0.015</sub>								150170100				150170150
160	180	160 <sup>+0.083</sup> / <sub>+0.043</sub>	180 <sup>+0.040</sup> / <sub>+0.015</sub>								160180100				160180150



Application case

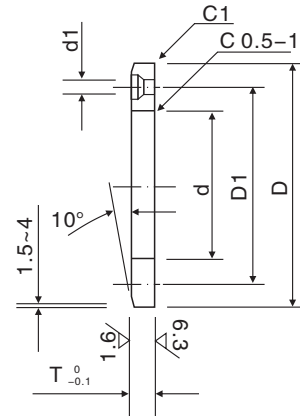
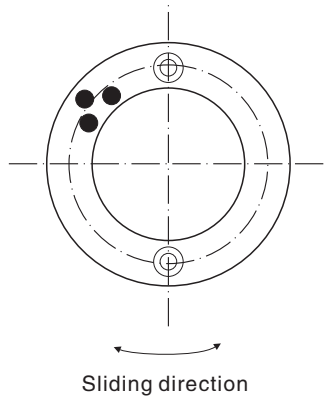
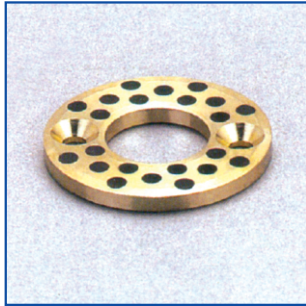


# JFB SOLID LUBRICATING BEARING NORMAL METRIC FLANGE BEARING



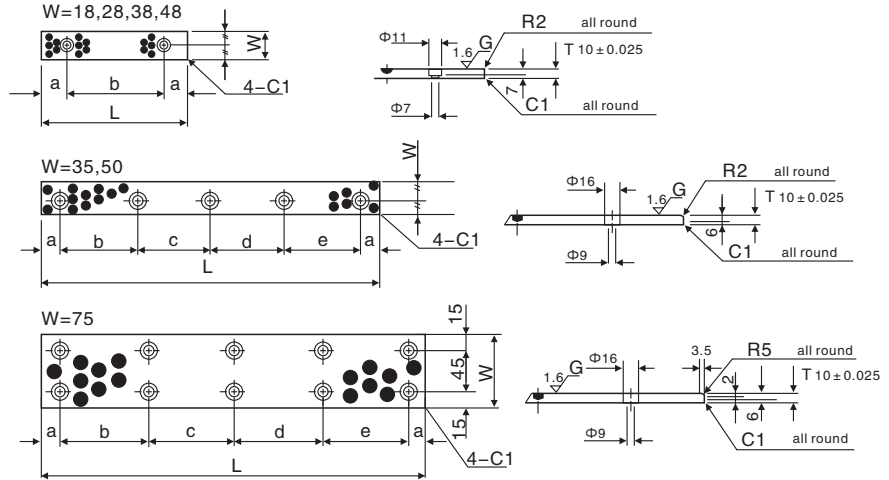
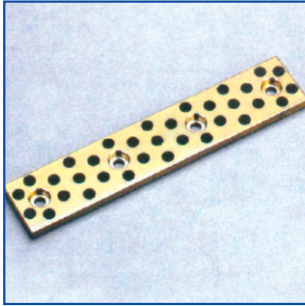
mm

d	D	I.D. E7	O.D. r6	F	h	L <sup>-0.10 -0.30</sup>									
						15	20	25	30	35	40	50	60	80	100
10	14	10 <sup>+0.040 +0.025</sup>	14 <sup>+0.034 +0.023</sup>	22	2	101415	101420								
12	18	12 <sup>+0.050 +0.032</sup>	18 <sup>+0.034 +0.023</sup>	25		121815	121820								
13	19	13 <sup>+0.050 +0.032</sup>	19 <sup>+0.041 +0.028</sup>	26		131915	131920								
14	20	14 <sup>+0.050 +0.032</sup>	20 <sup>+0.041 +0.028</sup>	27	3	142015	142020								
15	21	15 <sup>+0.050 +0.032</sup>	21 <sup>+0.041 +0.028</sup>	28		152115	152120	152125	152130						
16	22	16 <sup>+0.050 +0.032</sup>	22 <sup>+0.041 +0.028</sup>	29		162215	162220	162225	162230						
20	30	20 <sup>+0.061 +0.040</sup>	30 <sup>+0.041 +0.028</sup>	40		203015	203020	203025	203030	203040					
25	35	25 <sup>+0.061 +0.040</sup>	35 <sup>+0.050 +0.034</sup>	45		253515	253520	253525	253530	253540					
30	40	30 <sup>+0.061 +0.040</sup>	40 <sup>+0.050 +0.034</sup>	50			304020	304025	304030	304035	304040	304050			
31.5	40	31.5 <sup>+0.075 +0.050</sup>	40 <sup>+0.050 +0.034</sup>	50			3154020			3154035					
35	45	35 <sup>+0.075 +0.050</sup>	45 <sup>+0.050 +0.034</sup>	60	5		354520		354530		354530	354550			
40	50	40 <sup>+0.075 +0.050</sup>	50 <sup>+0.050 +0.034</sup>	65			405020		405030		405030	405050			
45	55	45 <sup>+0.075 +0.050</sup>	55 <sup>+0.060 +0.041</sup>	70					455530		455530	455550	455560		
50	60	50 <sup>+0.075 +0.050</sup>	60 <sup>+0.060 +0.041</sup>	75					506030		506030	506050	506060		
55	65	55 <sup>+0.090 +0.060</sup>	65 <sup>+0.060 +0.041</sup>	80							556530		556560		
60	75	60 <sup>+0.090 +0.060</sup>	75 <sup>+0.062 +0.043</sup>	90							607530	607550		607580	
63	75	63 <sup>+0.090 +0.060</sup>	75 <sup>+0.062 +0.043</sup>	85	7.5									637580	
70	85	70 <sup>+0.090 +0.060</sup>	85 <sup>+0.073 +0.051</sup>	105									708550		708580
75	90	75 <sup>+0.090 +0.060</sup>	90 <sup>+0.073 +0.051</sup>	110									759060		
80	100	80 <sup>+0.090 +0.060</sup>	100 <sup>+0.073 +0.051</sup>	120									8010060	8010080	80100100
90	110	90 <sup>+0.107 +0.072</sup>	110 <sup>+0.076 +0.054</sup>	130	10								9011060	9011080	
100	120	100 <sup>+0.107 +0.072</sup>	120 <sup>+0.076 +0.054</sup>	150											10012080
120	140	120 <sup>+0.107 +0.072</sup>	140 <sup>+0.088 +0.063</sup>	170										12014080	120140100



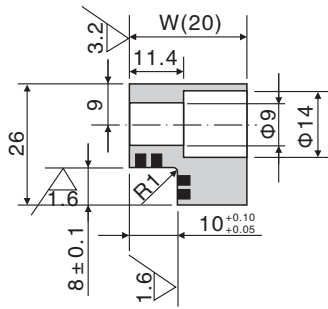
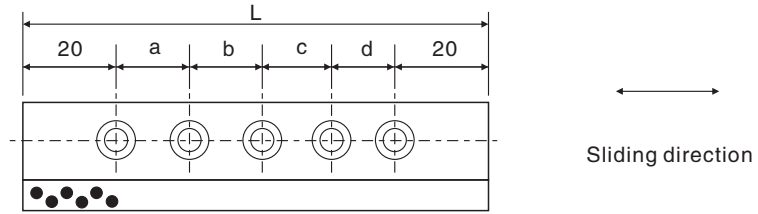
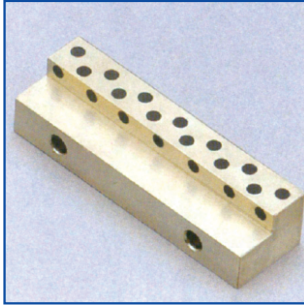
mm

Model No.	d <sup>+0.2</sup> <sub>+0.1</sub>	D	T <sup>0</sup> <sub>-0.1</sub>	Bolt			
				D1	Q' ty	Size	d1
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	16.2	50		---	---	---	---
JTW-18	18.2			35	2	M3	3.5
JTW-20	20.2					M5	6
JTW-20N	20.2			---	---	---	---
JTW-25	25.2	55	5	40	2	M5	6
JTW-25N	25.2			---	---	---	---
JTW-30	30.2	60		45		M5	6
JTW-35	35.2	70		50	2		
JTW-40	40.2	80	7	60			
JTW-45	45.2	90		70		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		120			
JTW-90	90.5	170	10	140			
JTW-100	100.5	190		160		M10	11
JTW-120	120.5	200		175			

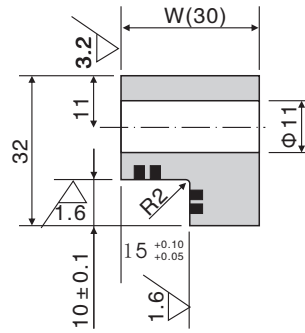


mm

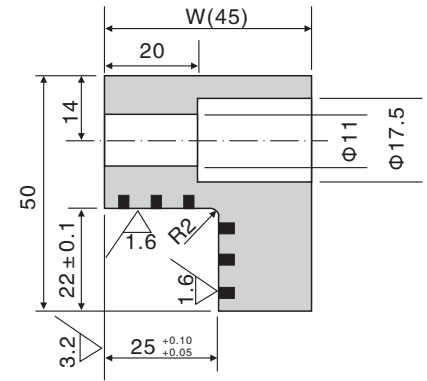
Model No.	W	L	a	b	c	d	e	Flat Head Screw	No.of Holes
JSP-1875	18	75	15	45				M6	2
JSP-18100		100		50					
JSP-18125		125	25	75					
JSP-18150		150		100					
JSP-2875	28	75		45			M6	2	
JSP-28100		100		50					
JSP-28125		125	25	75					
JSP-28150		150		100					
JSP-35100	35	100		60			M8	3	
JSP-35150		150		55	55				
JSP-35200		200	20	55	50	55			
JSP-35250		250		70	70	70			
JSP-35300		300		65	65	65			65
JSP-35350	350		80	75	75	80			
JSP-3875	38	75	15	45			M6	2	
JSP-38100		100		50					
JSP-38125		125	20	75					
JSP-38150		150		100					
JSP-4875	48	75	15	45			M6	2	
JSP-48100		100		50					
JSP-48125		125	25	75					
JSP-48150		150		100					
JSP-50100	50	100		60			M8	3	
JSP-50150		150		55	55				
JSP-50200		200		55	50	55			
JSP-50250		250		70	70	70			
JSP-50300		300		65	65	65			65
JSP-50400	400	20	90	90	90	90			
JSP-75150	75	150		110			M8	4	
JSP-75200		200		80	80				
JSP-75250		250		105	105				
JSP-75300		300		85	90	85			
JSP-75400		400		120	120	120			
JSP-75500		500		115	115	115			115



**A**



**B**



**C**

mm

Model No.	W	L	Bolt				Size	Q' ty	Sketch
			a	b	C	d			
JSL-20 × 100		100	60				2		
JSL-20 × 150	20	150	55	55			M8	3	A
JSL-20 × 200		200	55	50	55			4	
JSL. 30 × 100		100	60					2	
JSL-30 × 150	30	150	55	55			M10	3	B
JSL-30 × 200		200	55	50	55	4			
JSL-30 × 250		250	70	70	70			4	
JSL-45 × 200		200	55	50	55			4	
JSL-45 × 250	45	250	70	70	70		M10	4	C
JSL-45 × 300		300	65	65	65	65		5	
JSL-45 × 350		350	80	75	75	80		5	