Solid Bronze Bearing is manufactured using high tensile manganese bronze plugged with solid

lubricants. Basic bronze alloy material is CuZn25Al6Fe3Mn3 with graphite (SL2) plugged, we also provide widely optional choice from CuSn5Pb5Zn5, CuAl10Fe5Ni5, CuSn12, and other standards materials.

Especially our company have developed the SL4 solid lubricants for water contacting applications like jet, propeller, ship, boatyard, offshore platform, hydraulic turbine etc.

These products are mainly used in applications of high load & moderate speed. It has the ability to withstand the temperature up to 400°C. We also have the capability to develop these bushes and plates as per any specifications of our clients.

Technical Data

Bronze material	CuZn25Al6Fe3Mn3	CuSn5Pb5Zn5	CuAl10Fe5Ni5	CuSn12	
Biolize material	+SL2	+SL2	+SL2	+SL2	
Cu%	Rest	85	80	88	
Sn%		5		12	
Pb%		5			
Zn%	25	5			
AI%	6		10		
Ni%			5		
Fe%	3		5		
Mn%	3				
Density	8.2 g/cm3	8.8 g/cm3	8.5 g/cm3	8.8 g/cm3	
Hardness	>HB210	>HB70	>HB150	>HB80	
Max. Load Pressure	100 N/mm ²	40 N/mm ²	50 N/mm ²	45 N/mm ²	
Max. Linear Speed	0.5 m/s(dry)	0.4 m/s(dry)	0.25 m/s(dry)	0.5 m/s(dry)	
Max. PV	1.65 N/mm² ∗ m/s	1.00 N/mm ² * m/s	1.25 N/mm ² * m/s	1.20 N/mm ² * m/s	
Tensile Strength	>750 N/mm ²	>200 N/mm ²	>500 N/mm ²	>360 N/mm ²	
Elongation	>12 %	>15 %	>10 %	>8 %	
Temperature Limit	-40 ~ +300 °C	-40 ~ +250 °C	-40 ~ +400 °C	-40 ~ +300 °C	

Products Standard: ISO 4379 (replaces DIN 1850)

Solid Lubricants

Code	Material	Features	Application	
SL2	Graphite composite	Low friction	Widely used for machinery	
		Chemical resistant		
		Low cost		
		Temperature limit 400°C		
SL4	PTFE+MoS2 composite	Water contacting lubricating	(Sea) Water lubricating	
		Longer life		
		Temperature limit 300°C		

Basic Materials Form



= ordering code

*Standard Bronze material is CuZn25Al6Fe3Mn3 if without specified

Basic Structures



S Sleeve Bushing

Special Structures



F Edge Flanged





P Slide Pad



SGF



SOL = ordering code



SPFG



EGB







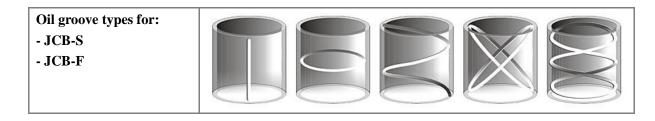
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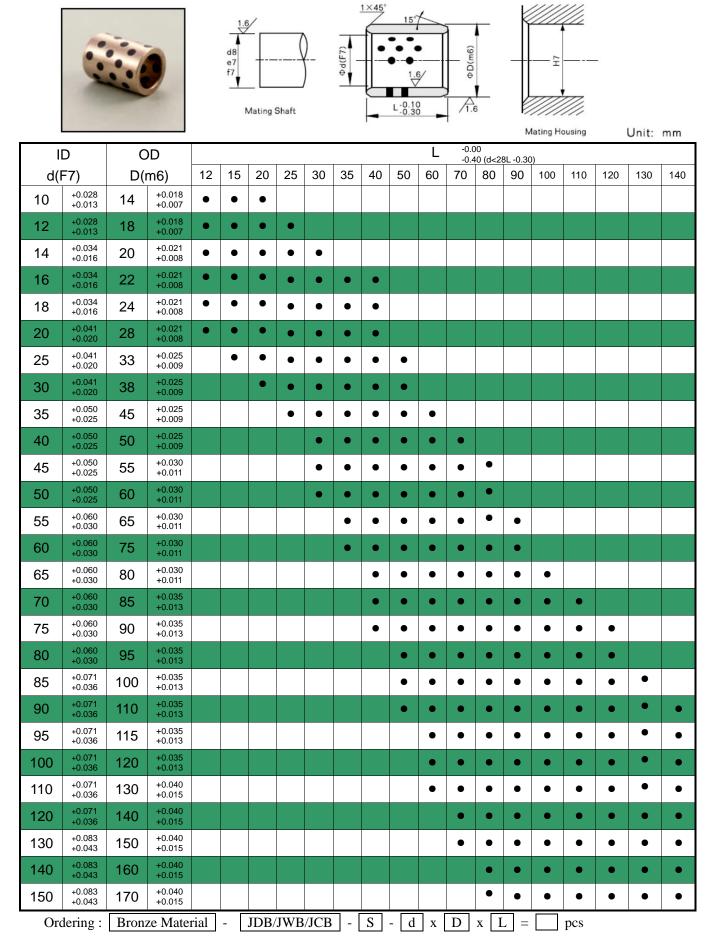


SGL

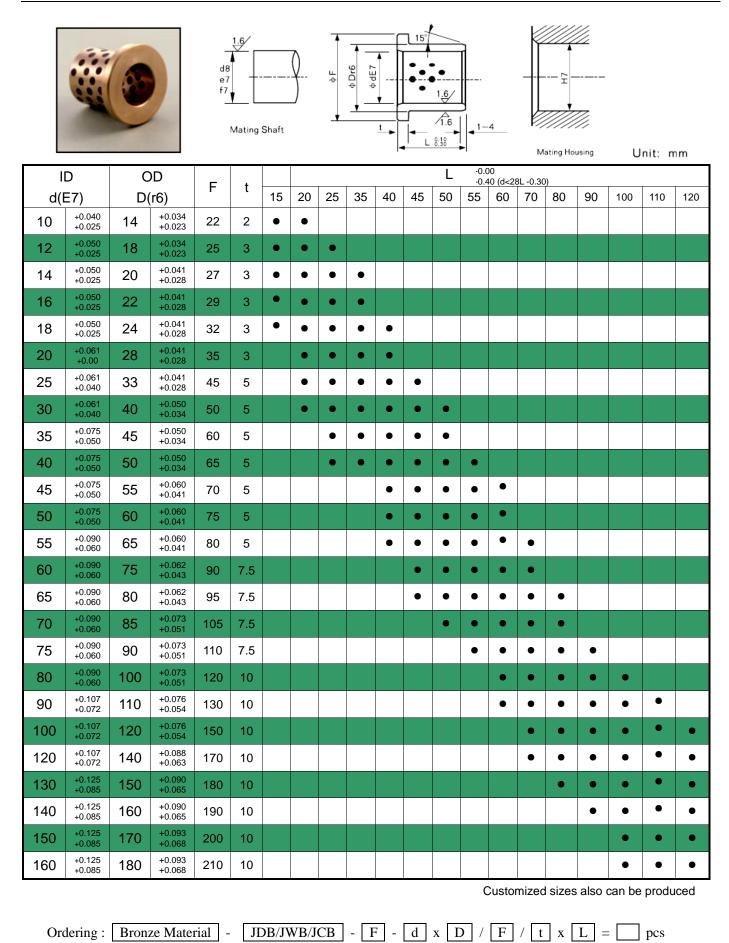


HCS-Lubripad

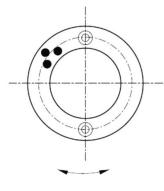


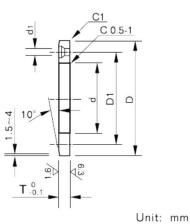


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Sliding direction

Cho#	ID		Center	(DD	Thickness	Size for Installation		
Shaft		b	D1		D	T _{-0.1}	d1	Qty	Screw
10	10.2	+0.2 +0.1		30	-0.00 -0.25	3			
12	12.2	+0.2 +0.1	28	40	-0.00 -0.25	3	3.5	2	M3
13	13.2	+0.2 +0.1	28	40	-0.00 -0.25	3	3.5	2	M3
14	14.2	+0.2 +0.1	28	40	-0.00 -0.25	3	3.5	2	M3
15	15.2	+0.2 +0.1	35	50	-0.00 -0.25	3	3.5	2	M3
16	16.2	+0.2 +0.1	35	50	-0.00 -0.25	3	3.5	2	M3
18	18.2	+0.2 +0.1	35	50	-0.00 -0.25	3	3.5	2	M3
20	20.2	+0.2 +0.1	35	50	-0.00 -0.25	5	6	2	M5
25	25.2	+0.2 +0.1	40	55	-0.00 -0.25	5	6	2	M5
30	30.2	+0.2 +0.1	45	60	-0.00 -0.25	5	6	2	M5
35	35.2	+0.2 +0.1	50	70	-0.00 -0.25	5	6	2	M5
40	40.2	+0.2 +0.1	60	80	-0.00 -0.25	7	7	2	M6
45	45.2	+0.2 +0.1	70	90	-0.00 -0.25	7	7	2	M6
50	50.3	+0.2 +0.1	75	100	-0.00 -0.25	8	7	4	M6
55	55.3	+0.2 +0.1	85	110	-0.00 -0.25	8	7	4	M6
60	60.3	+0.2 +0.1	90	120	-0.00 -0.25	8	9	4	M8
65	65.3	+0.2 +0.1	95	125	-0.00 -0.25	8	9	4	M8
70	70.3	+0.2 +0.1	100	130	-0.00 -0.25	10	9	4	M8
80	80.3	+0.2 +0.1	120	150	-0.00 -0.25	10	9	4	M8
90	90.5	+0.2 +0.1	140	170	-0.00 -0.25	10	11	4	M10
100	100.5	+0.2 +0.1	160	190	-0.00 -0.25	10	11	4	M10
120	120.5	+0.2 +0.1	175	200	-0.00 -0.25	10	11	4	M10

Customized sizes also can be produced

Ordering : Bronze Material -

al - JDB/

JDB/JWB/JCB - W - d x D x T = [

pcs

