

## SB-T90 Bronze Wrapped Bushing with Through Holes



### Structure

The bearings are wrapped from a cold formed homogenous bronze (CuSn8) with exceptional material properties. The standard sizes incorporate holes, which are dispersed in a special way over the whole bearing surface. These holes serve as lubricant reservoirs to rapidly build up a lubrication film at the start of movement and thereafter reduce the running friction. The material is suitable for construction and agricultural machinery etc. where high load and slow movement occur.

### Chemical Compositions

Material type	Cu%	Sn%	P%	Pb%	Zn%
CuSn8	91.3	8.5	0.2	/	/

### Tech. Data

Max. load	Static	120N/mm <sup>2</sup>	Elongation	40%
	Dynamic	40N/mm <sup>2</sup>		Temp.
Max. speed (Lubrication)	2.5m/s		Friction coefficient	0.08-0.25
Max. PV	2.8N/mm <sup>2</sup> m/s		Thermal conductivity	58W/(m <sup>2</sup> k) <sup>-1</sup>
Tensile strength	450N/mm <sup>2</sup>		Coef. of thermal expansion	18.5*10 <sup>-6</sup> /K <sup>-1</sup>
Hardness	HB 110-150			

### Bushes tolerance

Unit:mm

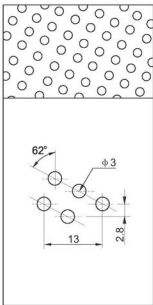
I.D.	10<d≤18	18<d≤30	30<d≤50	50<d≤80	80<d≤120	120<d≤180	180<d≤250	250<d≤300
O.D. tolerance	+0.065 +0.030	+0.075 +0.035	+0.085 +0.045	+0.100 +0.055	+0.120 +0.070	+0.170 +0.100	+0.210 +0.130	+0.260 +0.170
Installed I.D.H9	+0.043 0	+0.052 0	+0.062 0	+0.074 0	+0.087 0	+0.100 0	+0.115 0	+0.130 0

Housing: H7, Shaft: d7

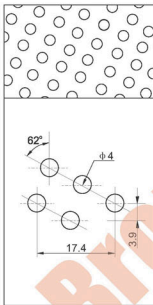
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### Oil hole type

Inside Dia.  $\leq \phi 25$



Inside Dia.  $\geq \phi 28$



### Features

1. Easy of fitting and lubricate
  2. High load capacity
  3. Excellent wear resistance with lower friction
  4. High level thermal conductivity
  5. Minimum overall dimensions
  6. Chemical resistance
  7. Extended service life and lubrication intervals than normal SB-090 type bearings
  8. Free selection of lubricants
  9. Collection of dust and rub off particles in the holes
- Initial pre-lubrication at assembly is required...

### Typical Applications

This type of bushing is widely applied in hoisting machines and other construction machines, automobiles, tractors, trucks, machines tools and some mineral engines. It can be fabricated into bushes, half bearings, flanged bushes, thrust washers, spherical bearing and so on.