



## Structure

The bearings are wrapped from a cold formed homogenous bronze (CuSn8) with exceptional material properties. The standard sizes are fitted with diamond shaped lubrication indents in the bearing surface. These indents 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 applications.

## Chemical Compositions

Material type	Cu%	Sn%	P%	Pb%	Zn%
CSB-090	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)	2m/s		Friction coefficient	0.08~0.25
Max. PV	2.8N/mm <sup>2</sup> *m/s		Thermal conductivity	58W(m*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			

## Feature

1. Easy for fitting and lubricating
2. High load capacity
3. Inner Diameter machineable parts are available against order
4. High level thermal conductivity
5. Minimum overall dimensions
6. Chemical resistance.

Initial pre-lubrication at assembly 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, trust washers, spherical bearing and so on.



## 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%
CSB-T90	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*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			

## 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 CSB-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.

# CSB-T90 Bronze Wrapped Bushes

## Chemical composition

Material type	Cu%	Sn%	P%	Pb%	Zn%
CSB-T09	91.3	8.5	0.2	/	/

## Bushes tolerance

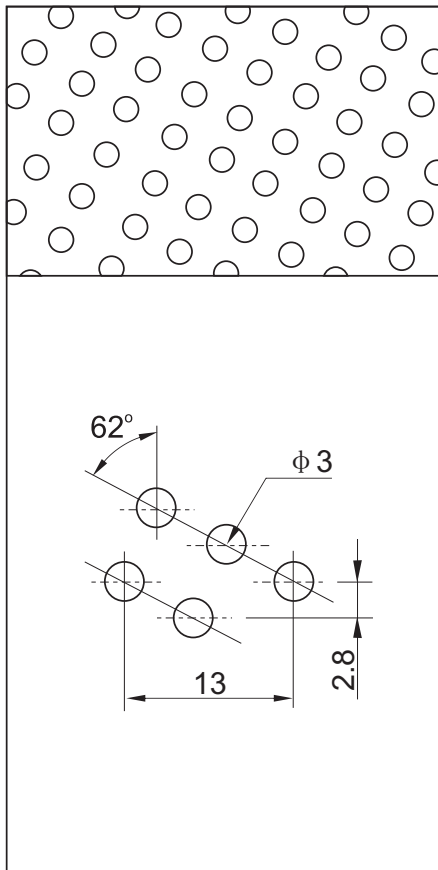
Unit:mm

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

## Oil hole type

Inside Dia. ≤ φ 25



Inside Dia. ≥ φ 28

