

# BRO-MAS® sliding bearing



Types	BSZ Cylindrical bushing	BSB Flanged bushing	BSA Thrust washer	BSS Stripes
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## TECHNICAL DATA

Description	Solid turned bronze sliding bearing. <b>Maintenance-bound</b> DIN 1850 / ISO 4379
Properties	Maintenance-bound sliding bearing, suitable for operation in contaminated environment, good corrosion resistance, unsusceptible to impact load.
Material*	Standard material CuSn12 / ASTM C90800

## MATERIAL PROPERTIES \*\*

Specific load capacity static	≤ 150	[ N/mm <sup>2</sup> ]
Specific load capacity dynamic	≤ 60	[ N/mm <sup>2</sup> ]
Sliding speed	< 10	[ m/s ] depends on lubrication and strain
Temperature strain	-40 - +150	[ °C ]

## TOLERANCE DETAILS

Housing – Ø	According to customer's specification
Bushing after mounting	According to customer's specification
Shaft tolerance	According to customer's specification
Shaft material	Hardened steel, surface roughness < R <sub>z</sub> 6,3

## MOUNTING ADVISE

Housing – Ø	Mounting bevel, min. 1,5 mm x 15-45°
Shaft	Mounting bevel, 5 mm x 15°, edges rounded
Force fitting mandrel	The application of an adequate force fitting mandrel is advisable. Grease lubrication of the outer surface may be necessary when mounting.
Maintenance	Oil or grease lubrication is necessary. Because of lubrication slots or lubrication drills, lubrication clearances can be reduced to a minimum and lubricant allocation can be improved.

This bearing type is only available as manufacture of new articles, no stocking.  
Custom sizes are manufactured in a short term!

* ADDITIONAL METAL ALLOYS	YIELD STRENGTH N/mm <sup>2</sup>	TENSILE STRENGTH N/mm <sup>2</sup>	HARDNESS/HB 10
CuPb15Sn / ASTM C93900	110	220	65
CuSn7ZnPb2 / ASTM C93200	130	270	75
CuAl10Ni / ASTM C95500	300	700	160
CuZn25Al5 / ASTM C86300	450	750	190 - 220

\* As a special design additional sliding alloys are available.

\*\* The above stated material properties are valid for optimal operating conditions. Through changes of the application conditions e.g. higher sliding speed or strain, these values are subject to change.