



GGB-SHB[®]

**CASE HARDENED
STEEL BEARINGS**



APPLICATIONS

Industrial – Earth moving machinery, excavators, drilling machinery, farming machinery, various equipment grabs, buckets, grippers, hydraulic cylinder

CHARACTERISTICS

- Steel bushings ideally suited for lubricated applications
- With plain or grooved sliding layer
- Suitable for grease lubrication
- Low rotation speed with high specific pressure

AVAILABILITY

Bearing forms available in standard dimensions:
Plain cylindrical bushes

Bearing forms made to order: Bearings with various lubrication grooves, non-standard parts

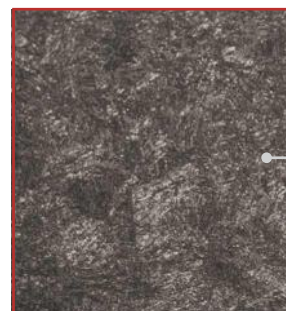


BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Static	N/mm ²	300
	Dynamic	N/mm ²	150
Tensile strength		N/mm ²	550
Maximum operating temperature		°C	150
Density			7.8
Coefficient of linear thermal expansion		10 ⁻⁶ /K	12
GREASE LUBRICATED			
Maximum sliding speed, U		m/s	0.1
Maximum pU factor		N/mm ² x m/s	1.5
Coefficient of friction, f			0.2
MATING MATERIAL			
Bearing surface roughness, Ra		µm	≤ 0.8
Bearing surface hardness		HRC	58 - 62

OPERATING PERFORMANCE

Dry	Poor
Oil lubricated	Good
Grease lubricated	Very Good
Water lubricated	Not recommended
Process fluid lubricated	Depending on fluid

MICROSECTION



Steel E410, E470
(20MnV6, AISI A381)
acc. to EN 10305