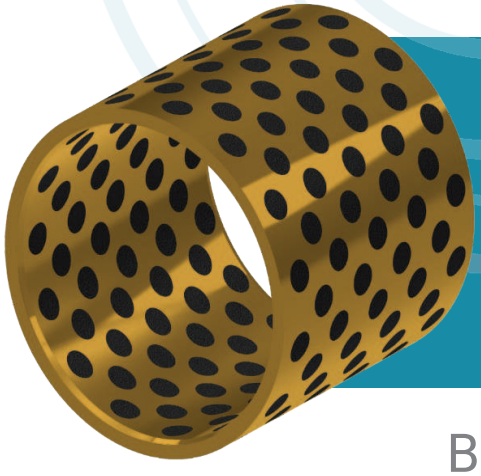
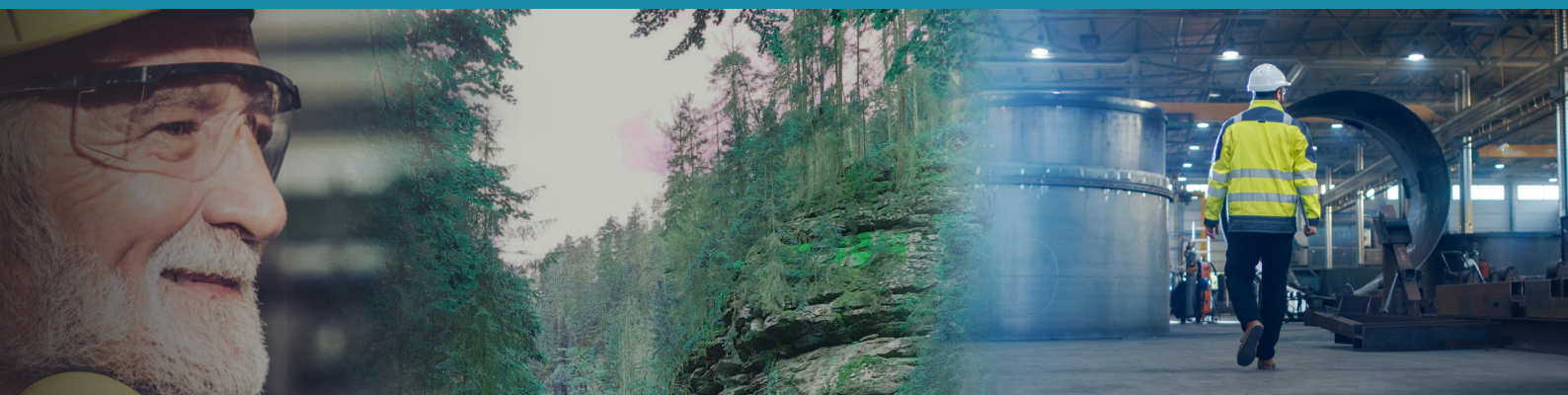
HOWA

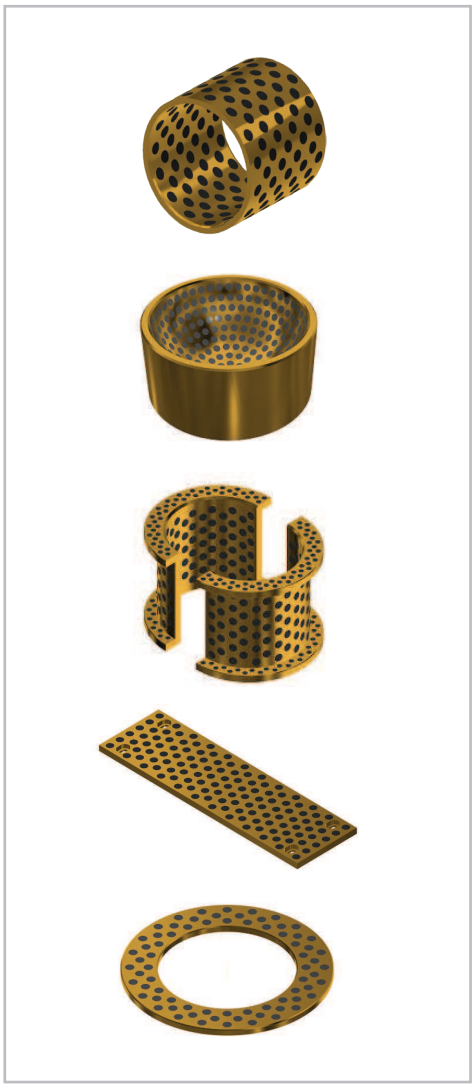
DATASHEET
HOWA-SLB



Bronze Alloy
with Incorporated Solid
Lubricant Inserts



HOWA-SLB



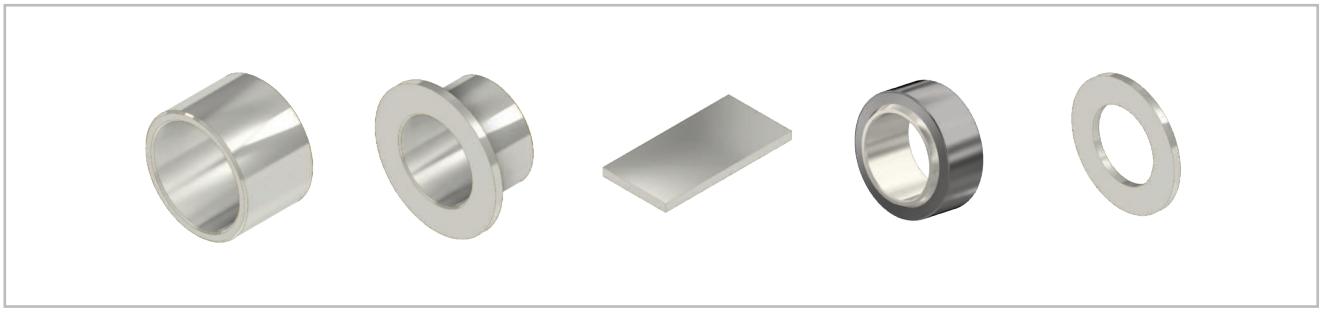
FEATURES

- Self-lubricating bearing bronze for a wide range of challenging applications
- Exceptional wear-performance under high loads along with low friction coefficients
- Suitable for demanding water-submersed or high temperature applications

TYPICAL INDUSTRIES

- Offshore & Marine
- Civil Engineering
- Hydromechanical
- Renewable Energy
- Metallurgy

AVAILABLE GEOMETRIES



HOWA-SLB

BEARING PARAMETERS

Material Code	Yield Stength	Tensile Strength	Strain	E-modulus	Hardness	Dynamic Load Capacity (max.)	Static Load Capacity (max.)	Coefficient of Friction		Sliding Speed (max.)	PV Value (max.)	Temperature Strain		Applications
	N/mm²	N/mm²	%	N/mm²	HB	N/mm²	N/mm²	dry	greased	m/s	N/mm² * m/s	min.°C	max.°C	
SLB 120	120	260	12	106000	70	60	130	0.08 - 0.12	0.06 - 0.10	0.6	1	-40	250	Ideal for medium loads, able to handle misalignments, best friction properties
SLB 150	150	280	5	112000	90	95	180	0.10 - 0.12	0.06 - 0.20	0.4	1	-40	300	High loads, small misalignments permitted, sea-water resistant
SLB 280	280	650	13	122000	150	170	280	0.10 - 0.15	0.08 - 0.12	0.4	1.5	-40	350	Highest dynamic loads (pulsating and alternating), extremely wear-resistant, ideal for sea-water applications
SLB 480	480	750	8	115000	200	180	330	0.12 - 0.17	0.08 - 0.12	0.2	1.2	-40	350	Extreme (static) loads und slow sliding speeds, fresh water resistant

SOLID LUBRICANT INSERTS

Type	Properties
LG	▶ Graphite Type for Common In and Outdoor Applications ▶ Temperatures Up to 350 °C ▶ Applicable in Moist (Not Submersed) Environments
LP	▶ Fresh and Sea water Resistant (Splash and Fully Submersed) ▶ Temperatures up to 90 °C ▶ Slighly Lower Friction Coefficients than LG Grade

MATING COMPONENTS

Housing Bore	Tolerance	H7
Shaft	Tolerance	h7 (but others permitted due to flexibility during bearing machining)
	Hardness	min. HB70 higher than selected alloy
	Surface Roughness	Ra 0.2 - 0.8
	Material	Corrosive Environments: 1.4404 (316L)*, 1.4057, 1.4462 Normal Environments: 1.0503 (C45), 1.7225 (42CrMo4)

* only permitted for SLB 120 & 150