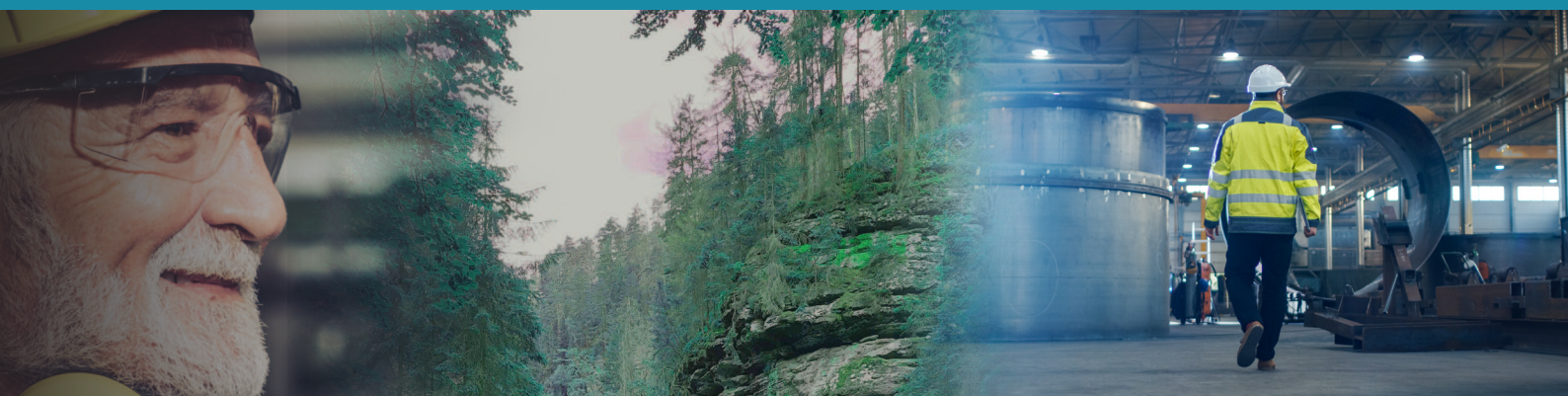




DATASHEET HOWA-STL-MN



Hardened
Manganese Steel





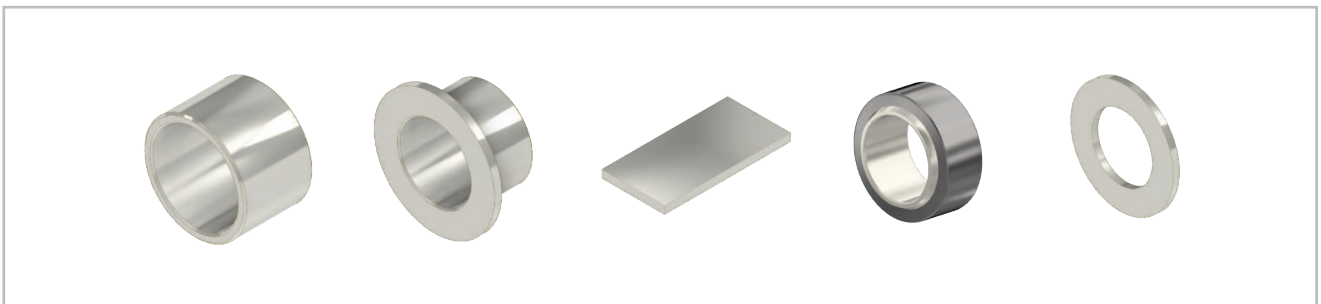
FEATURES

- Manganese-based, work-hardening steel
- Extreme wear-resistance in contaminated environments
- Ideal for shock loads and alternating load directions
- Grease-free operation possible

TYPICAL INDUSTRIES

- Mining & Construction Machinery
- Dredging
- Metallurgy
- Waste Incineration

AVAILABLE GEOMETRIES



BEARING PARAMETERS

Load Capacity Maximum	dynamic	70	N/mm ²
	static	500	N/mm ²
Coefficient of Friction	dry	0.15 - 0.25	
Sliding Speed Maximum	dry	0.1	m/s
PV Value		0.5	N/mm ² * m/s
Surface Hardness	work-hardened	>600	HV
Temperature Strain	minimum	-50	°C
	maximum	400	°C

MATING COMPONENTS

Housing Bore	Tolerance	H7
Shaft	Tolerance	h8 (but others permitted due to flexibility during bearing machining)
	Hardness (min.) HRC	55
	Surface Roughness	Ra 0.8 - 1.6
	Material	42CrMo4, 36CrNiMo4 (or similar)