



HARDWORKER

S-SERIES – FOR HIGH STRENGTH AND LOAD CAPACITY

LEAD-FREE STEEL-BRONZE-COMPOSITES

FEATURES AND CHARACTERISTICS

KS S215	KS S800/S803
Good formability	Good emergency running characteristics
Very high load capacity	High load capacity
Good corrosion resistance	
Above average adaptability and low wear	
Lead-free material	

TYPICAL APPLICATIONS

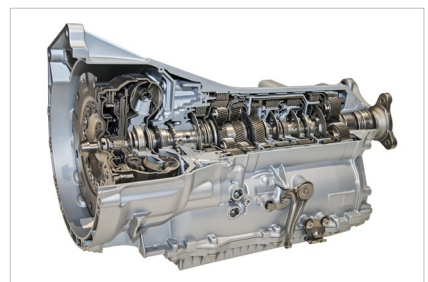
Conrod bushings



Brakes



(Industrial-) Gearbox



Additional applications:

- Hydraulic engine
- Axles
- Steering systems
- and many more

For further applications please contact our technical support.

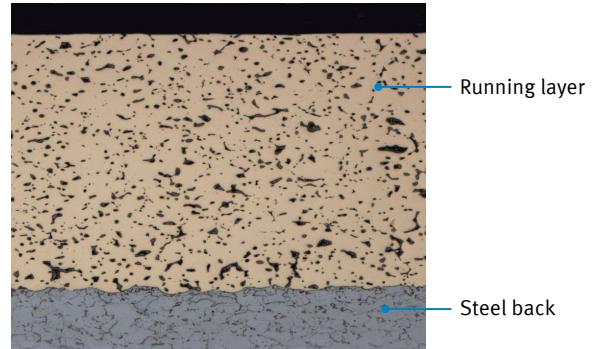
BEARING STRUCTURE

Sliding elements

- Steel layer (DC04)
- Running layer:
 - Zinc-Bismuth-Bronze (S800/S803)
 - Zinc-Bronze (S215)

Characteristics

- Bearing metal surface can be provided with lubrication pockets or lubrication grooves



MATERIAL CHARACTERISTICS

Characteristic values		KS S215	KS S800	KS S803	Unit
Mechanical characteristics	Tensile strength	> 425	> 230	> 250	[N/mm ²]
	Yield strength	> 400	> 210	> 230	[N/mm ²]
Load capacity		150	110	130	[MPa]
Permissible temperature range		< 200	< 150		[°C]
		short-term: 220	short-term: 180		
Thermal expansion coefficient		80*10 ⁻⁶	18*10 ⁻⁶		[1/K]
Thermal conductivity		80	50		[W/m*K]

QUALITY

- The complete manufacturing process is monitored and controlled by a proven set of quality assurance measures

CERTIFICATES

- Made in Germany
- ISO9001, ISO14001, ISO50001, IATF 16949

SUSTAINABILITY



CONTACT

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