

H-LINER[®] S

Composite range

SELF-LUBRICATING COMPOSITE COMPONENTS These plain bearings are made of composite materials and are reinforced with a glass fiber structure, which guarantees excellent friction properties and increased wear resistance. There is no need for external lubrication, even under heavy loads.

Advantages of H-Liner[®] S:

- Maintenance-free
- High load capacities
- Low wear
- Excellent guiding properties
- Lightweight (6 times lighter than copper alloys)

Examples of applications:



Car carrier trailers



Truck crane



Tillage



Scissor lifts



Combine harvester

Operating conditions

Max. static pressure	400 MPa
Max. dynamic pressure	140 MPa
Max. speed	0,5 m/s
Max. PV factor	1 MPa,m/s
Coefficient of friction, dry	0,05 to 0,1
Temperature range	-40°C to 130°C
Coefficient of thermal expansion	7 E ⁻⁶ /K
Water absorption rate	0,16 % after 24h
Assembly instructions	Press, nitrogen or bonded assembly. If something else, please contact us

Housing

Standard tolerance	H7 or H8*
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Shaft

Standard tolerance	h7 or h8*
Optimum roughness	0,2 to 0,6 µm
Recommended surface treatments	Corrosion resistance
Optimum HEF technology	PEL [®] OX, ARCOR treatment, etc.

Components available in this technology

Bushings, spherical plain bearings, etc.
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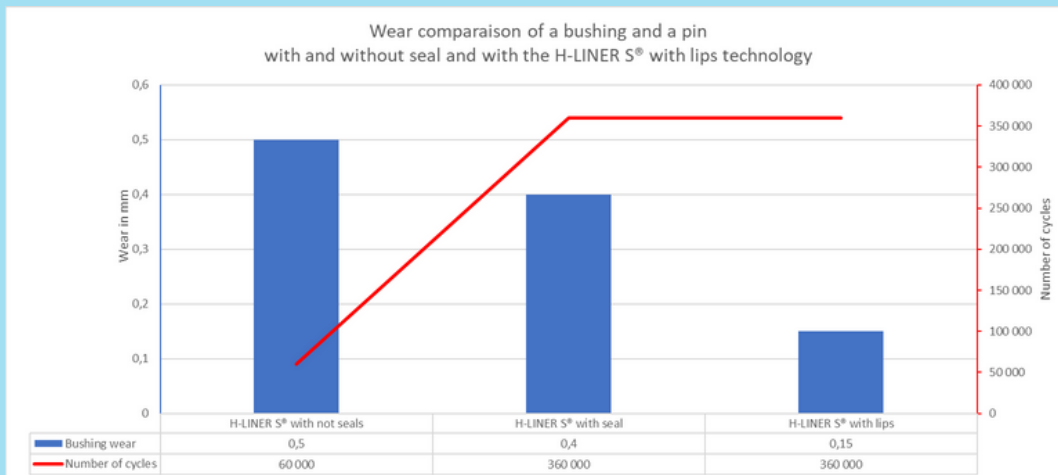
- Depending on the severity of your application conditions, these recommendations may change. Contact us before use





H-Liner[®] S for abrasion resistance:

- H-Liner[®] with lips: Patented friction components with integrated seals
- Significantly increased service life in abrasive environments



Wear reduced by 2,5 with the use of H-liner S with lips compared with solutions protected by rubber seals.



Extensive testing and R&D capacities

- 60 tribologists and R&D engineers
- More than 30 test benches, customisable tribometers
- Studies in special environments: Cryogenic, high-temperature, water, oil, grease, dust, etc.
- Over 3,000 studies conducted in various industries
- Over 200 patents

H-Liner[®] technology is the result of studies and research carried out by HEF Group's tribology specialists. However, it must be tested and validated under your specific operating conditions to ensure proper suitability for all your parameters before it is definitively adopted. H-LINER[®] S TECHNOLOGY IS A WORLDWIDE HEF PATENT - HEF IS THE ONLY AUTHORISED MANUFACTURER.

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