

PEL[®] BH3

Metallic range

EXTREMELY HIGH RESISTANCE TO WEAR AND SEIZURE UNDER DIFFICULT WORKING CONDITIONS: HIGH PRESSURE, CORROSION, ABRASION, IMPACT AND LOW MAINTENANCE

The PEL[®] BH3 bushing is the high-end version of our best-selling PEL[®] BH bushing. This bushing is extremely resistant to wear and seizure and has been developed to reduce the life cycle costs of the machine

Example of applications:



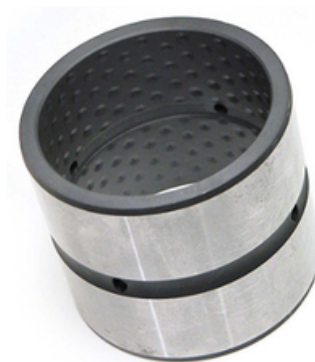
Forestry machines



Excavators



Mining sector



Operating conditions

Max. static pressure	450 MPa
Max. dynamic pressure	250 MPa
Speed	1,5 m/s
Max. temperature	Up to 250°C
Lubrication	Greased
Lubrication intervals	Up to 1,000h
Assembly instructions	Press or nitrogen assembly. If something else please contact us

Standard tolerances of the bushing

Inside diameter	H9*
Outside diameter	p6*

Housing

Standard tolerance	H7*
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Shaft

Standard tolerance	f7*
Optimum roughness	< 0,8 µm
Recommended surface treatments	Hardness > 56 HRC
Optimum HEF technology	PEL [®] ST, PEL [®] STC, etc.

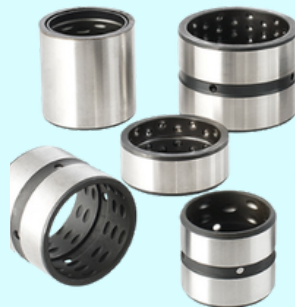
Components available in this technology

Bushings, flanged bushings, spherical plain bearings, slide pads, washers, etc.

* Depending on the severity of your application conditions, these recommendations may change. Contact us before use



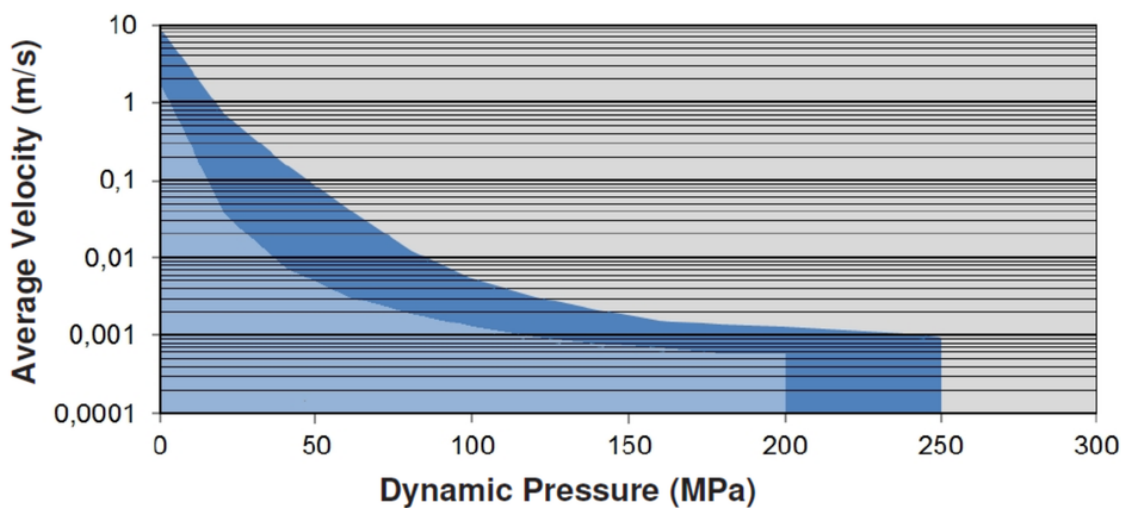
PEL[®] BH and PEL[®] BH3 comparison



Shaft

	PEL [®] BH (reference)	PEL [®] BH3
Surface hardness	100%	130%
Thickness of the tribological layer	100%	150%
Lubrication ratio	100%	300%
Max. dynamic pressure (MPa)	200	250
Maximum speed (m/s)	1.5	1.5
Abrasion resistance	++	+++
Service life	100%	250%
Lubrication interval	Up to 500 h	Up to 1,000h

Courbes PV :



NB : curve obtained from test bench results

Normal applications (with marginal lubrication)

Possible applications after validation tests (with regular lubrication)

PEL[®] BH3 technology is based on our experience in the field of tribology. Consequently, it must be tested and validated under your actual working conditions before it is adopted for permanent use. PEL[®] BH3 TECHNOLOGY IS A WORLDWIDE HEF PATENT - HEF IS THE ONLY AUTHORISED MANUFACTURER

Contact

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HEF DURFERRIT MECHANICAL PRODUCTION PLANTS

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