

## PEL<sup>®</sup> BH3

Metallic range

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

The PEL<sup>®</sup> BH3 bushing is the high-end version of our best-selling PEL<sup>®</sup> 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*
--------------------	-----

### Shaft

Standard tolerance	f7*
Optimum roughness	< 0,8 μm
Recommended surface treatments	Hardness > 56 HRC
Optimum HEF technology	PEL <sup>®</sup> ST, PEL <sup>®</sup> 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

### Contact

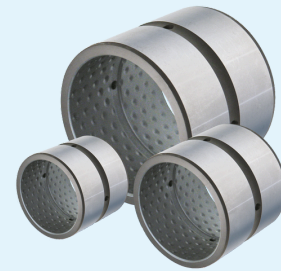
HEF DURFERRIT MECHANICAL PRODUCTION PLANTS  
FRANCE, UNITED KINGDOMS, INDIA, CHINA  
EMAIL: [bushings@hef.group](mailto:bushings@hef.group)

HEF DURFERRIT MECHANICAL SALES OFFICES  
EUROPE, INDIA, USA, JAPAN, CHINA





## PEL<sup>®</sup> BH and PEL<sup>®</sup> BH3 comparison



### Shaft

	PEL <sup>®</sup> BH (reference)	PEL <sup>®</sup> 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



### 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

*PEL<sup>®</sup> 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<sup>®</sup> BH3 TECHNOLOGY IS A WORLDWIDE HEF PATENT - HEF IS THE ONLY AUTHORISED MANUFACTURER*

### Contact

HEF DURFERRIT MECHANICAL PRODUCTION PLANTS  
FRANCE, UNITED KINGDOMS, INDIA, CHINA  
EMAIL: [bushings@hef.group](mailto:bushings@hef.group)

HEF DURFERRIT MECHANICAL SALES OFFICES  
EUROPE, INDIA, USA, JAPAN, CHINA