

## PEL<sup>®</sup> BHR

Metallic range

**HIGH RESISTANCE TO WEAR AND SEIZURE UNDER EXTREME OPERATING CONDITIONS: HIGH PRESSURE, ABRASION, IMPACT, AND CORROSION** PEL<sup>®</sup>BHR components offer excellent resistance to wear and seizure thanks to the combination of a duplex surface treatment and a special grease reservoir. Lubrication intervals are considerably extended.



### Examples of applications:



Construction



Waste collection



Backhoe loaders



Mining equipment



Grapples

### Operating conditions

Max. static pressure	300 MPa
Max. dynamic pressure	150 MPa
Max. speed	1,5 m/s
Max. PV factor	See curves on back
Max. temperature	Up to 250°C
Lubrication	Greased
Lubrication intervals	Up to 500h
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

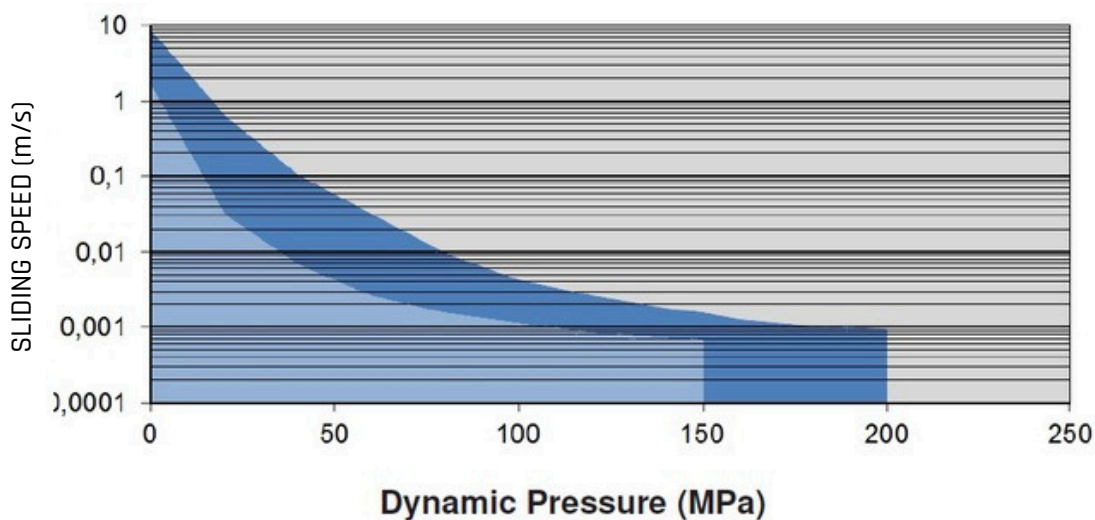
Standard tolerance	f7*
Optimum roughness	< 0,8 µm
Recommended surface treatments	Hardness > 56 HRC
Optimum HEF technology	PEL <sup>®</sup> ST, PEL <sup>®</sup> STC, ...

### Components available in this technology

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

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

### Courbes PV :



**NB:** Curves obtained on HEF test benches

Marginal lubrication

Regular lubrication



**Customisable PEL<sup>®</sup> BHR components:** PEL<sup>®</sup> BHR friction components can be customised to meet your specific requirements. For example, PEL<sup>®</sup> BHR HG, with the addition of a helical groove, is the perfect solution for the following problems:

- Regreasing under load
- Low angle of oscillation



### 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

This PEL<sup>®</sup> BHR 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> BHR TECHNOLOGY IS A WORLDWIDE HEF PATENT – HEF IS THE ONLY AUTHORISED MANUFACTURER

### Contact

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