

**HIGH RESISTANCE TO WEAR AND SEIZURE UNDER EXTREME OPERATING CONDITIONS: HIGH PRESSURE, ABRASION, IMPACT, AND CORROSION**

PEL<sup>®</sup> components offer excellent resistance to wear and seizure thanks to the combination of a duplex surface treatment and a special surface topography.



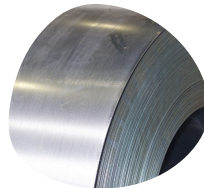
**Example of applications:**



Construction



Telescopic equipment



Winders



Railway



Coil clamps

**Operating conditions**

Max. static pressure	300 MPa
Max. dynamic pressure	100 MPa
Max. speed	1,5 m/s
Max. PV factor	See curves on back
Max. temperature	250°C
Lubrication	Greased
Lubrication intervals	Up to 50 h
Assembly instructions	Press or nitrogen assembly. If something else, please contact us

**Standard tolerances of the bushing**

Inside Ø	H9*
Outside Ø	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, etc.

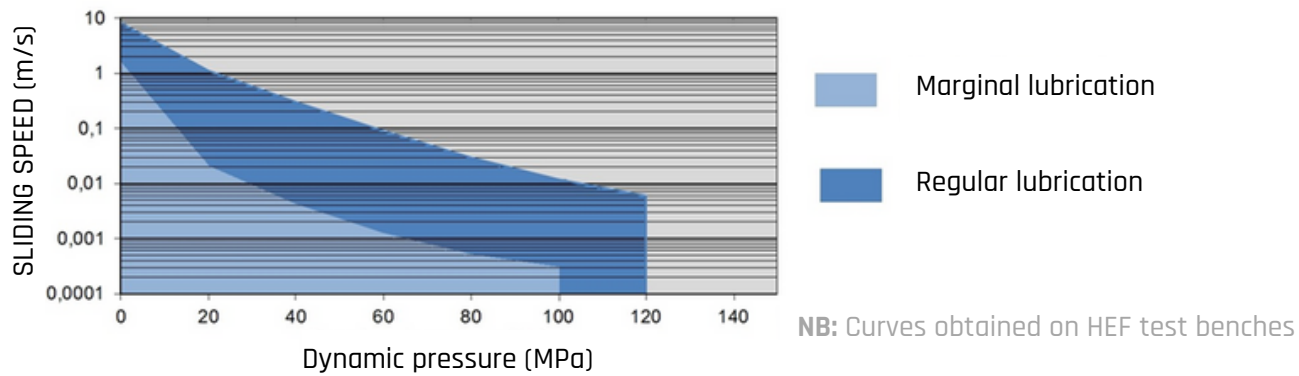
\* Depending on the severity of your application conditions, these recommendations may change. Contact us before use

**Contact**

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HEF DURFERRIT MECHANICAL SALES OFFICES  
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**PV curves**



**Customisable PEL<sup>®</sup> components:**

PEL<sup>®</sup> friction components can be customised to meet your specific requirements. For example, PEL<sup>®</sup> 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 3000 studies conducted in various industries
- Over 200 patents

The PEL<sup>®</sup> component is the result of studies and research carried out by HEF'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. PEL<sup>®</sup> TECHNOLOGY IS A WORLDWIDE HEF PATENT - HEF IS THE ONLY AUTHORISED MANUFACTURER

**Contact**

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