



# PEL® BH BUSHING Patent HEF

**HIGH RESISTANCE TO WEAR, SEIZURE AND CORROSION  
UNDER HARSH WORKING CONDITIONS  
HIGH PRESSURE, CORROSION, ABRASION, SHOCKS  
LOW MAINTENANCE**

The PEL BH bushing is a machined bearing with excellent resistance to wear and seizure due to the combination of a duplex surface treatment and special grease reservoirs.

With these bearings the intervals of lubrication are considerably increased.

## Surface characteristics :

The cavities at the surface of the PEL-BH bushing provide a large grease reservoir while maintaining an optimum load distribution.

The impregnated thermo-chemical surface treatment provides high surface hardness, and excellent resistance to abrasive wear, seizure and corrosion.

## Conditions of use :

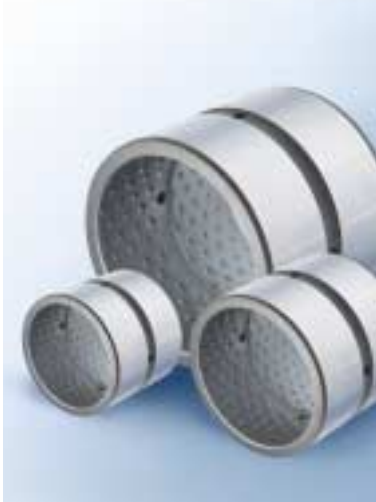
Dynamic pressure Max (MPa)	200
Speed (m/s)	1,5
PV factor (MPa.m/s)	See attached curve
Max Temp (°C)	250
Lubrication	greased

## Tolerances :

Housing	H 7
Bushings ID	H 9
Bushings OD	p 6
Shaft	f 7



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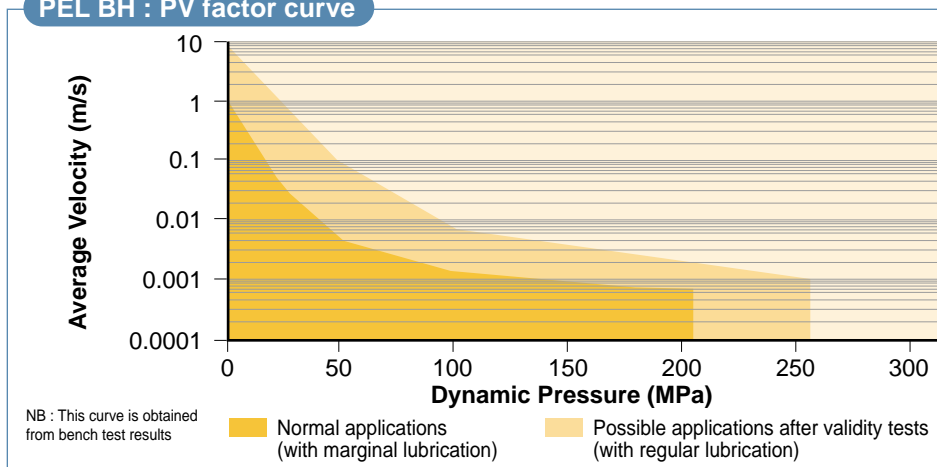


## Applications :

- ▶ **Garbage collection Trucks**
  - Handling system
  - Waste compression devices
- ▶ **Agricultural equipment**
  - Tractors
  - Ploughs
  - Handlers
  - Bush-cutter pilers
- ▶ **Earth moving equipment**
  - Excavators
  - Wheel loaders
  - Crushers
  - Backhoe loaders
- ▶ **Steel Industry**
  - Bushing support of stabs
  - Rollers of decarbonizer
- ▶ **Cement Industry**

This solution is based on our experience in the field of tribology. Therefore, it should be tested and validated in your real working conditions before being adopted for permanent use.

PEL BH : PV factor curve



## Mating shaft :

- For optimal performances of the joint, the surface roughness should be inferior to 0.8  $\mu\text{m Ra}$
- Under severe conditions, shafts hardened for 56-60 HRC are recommended

For optimal performances, special shafts are available from HEF

## Techniques of assembly :

PEL BH bushings are best assembled by press fitting or by nitrogen mounting (Other assembly techniques can also be used. If necessary, please contact HEF Group prior to use.)

## Basic forms available :

Different forms are available with PEL BH technology: cylindrical bushings, flanged bushings, sliding plates, thrust washers,....

## Problem of edge pressures :

Particular design or spherical plain bearings are available in case of edge pressures. Please contact us for more informations

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