PEL® BH BUSHING HEF Patent

HIGH RESISTANCE TO WEAR AND SEIZURE UNDER HARD 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 on 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

Standard Tolerances :

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

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PEL® BH BUSHING

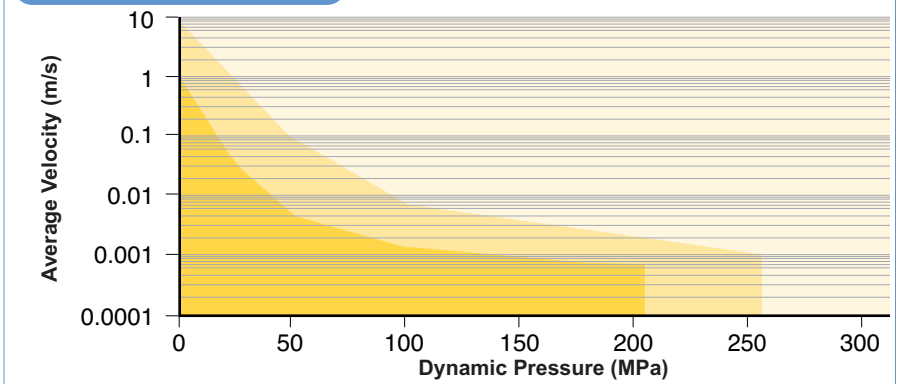
HEF Patent

Applications :

- **Garbage collection Trucks**
  - – Handling systems
  - – Waste compression devices
- **Agricultural equipments**
  - – Tractors
  - – Ploughs
  - – Handlers
  - – Bush-cutter pillar arms
- **Earth moving equipements**
  - – Excavators
  - – Wheel loaders
  - – Backhoe loaders
- **Steel Industry**
  - – Bushing support of slabs
  - – 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



NB : This curve is obtained from bench test results

Normal applications (with marginal lubrication)

Possible applications after validity tests (with regular lubrication)

Mating shafts:

– For optimal performances of the joint, the surface roughness should be below to 0.8 µm Ra

– Under severe conditions, shafts hardened to 56-60 HRc are recommended

For optimal performances, special shafts are available from HEF: PEL ST, PEL STC

Assembly instructions:

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.)

Available basic forms:

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

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