PEL® BUSHING

HIGH RESISTANCE TO WEAR AND SEIZURE IN HARD WORKING CONDITIONS

PEL® HP bushings have an excellent resistance to wear and seizure thanks to duplex surface treatment combines with patented greasing reservoirs on the friction area.

Surface characteristics

The optimized surface topography of the PEL® HP bushings provides grease reservoirs and enables the removal of abrasive particles from the contact area.

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

PEL® technology benefits

- Interval of lubrication up to 200 hours depending on the working conditions.
- Excellent resistance to seizure in case of random lubrication due to:
  - failure of the greasing system,
  - forgetting of regreasing.
- Excellent distribution of the grease on all the friction surface thanks to the surface topography.
- Strongly recommended for automatic greasing system.

Conditions of use

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Dynamic pressure</td>
<td>Max (MPa) 100</td>
</tr>
<tr>
<td>Max speed (m/s)</td>
<td>0.5</td>
</tr>
<tr>
<td>Max temperature of use (°C)</td>
<td>250</td>
</tr>
<tr>
<td>Lubrication</td>
<td>greased</td>
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Standard Tolerances

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<tbody>
<tr>
<td>Housing</td>
<td>H 7</td>
</tr>
<tr>
<td>Bushing ID</td>
<td>H 9</td>
</tr>
<tr>
<td>Bushing OD</td>
<td>p 6</td>
</tr>
<tr>
<td>Shaft</td>
<td>f 7</td>
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PEL® BUSHING

Applications:

Steel industry:
- Joints of telescopic equipments
- Guiding slides for ram of shear
- Joints of reel clamps
- Joints of casting ladle
- Joints of flying shear
- Slide bearings for pocket wagon

Glass industry:
- Mould joint

Construction equipments:
- Joints of excavators
- Joints of loaders
- Joints of crushers
- Slide bushings for hydraulic breaker

Transport equipments:
- Bushing support of slabs
- Rollers of decarbonizer

Agricultural equipments:
- Tractor front axle joints
- Back lifting joints
- Joints of bush-cutter pillar arms

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.

Mating shafts

For optimal performances of the joint, the surface roughness should be below to 0.8 μm Ra and the hardness should be higher than 56 HRc.

For optimal performances, special shafts are available from HEF DURFERRIT: PEL ST, PEL STC, PEL OX, PEL HT.

Assembly instructions

PEL® bearings are best assembled by press fitting or by nitrogen mounting. (Other assembly techniques can also be used.)
For further information, please contact HEF Durferrit prior to use.

Available basic forms

Different forms are available with PEL® technology: bushings, flanged bushings, spherical plain bearings, sliding plates, washers.

PEL® LV bushings are an alternative with no cross hatching on the ID. They offer really good performances (wear and seizure resistance…) under high static loads (low dynamic pressure) and by small oscillating movement.

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