Brush Seals: A Proven Enhancer to Labyrinth Seal Performance

Reduce leakage and increase efficiency with the patented* brush seal design from Bearings Plus®.

Used in a wide variety of industrial gas turbines, steam turbines and compressors, brush seals can reduce leakage by up to 80%. The seal’s flexible, densely packed bristles bend with rotor contact to follow shaft movement with little wear and low, predictable leakage over time.

For a high-quality, long-lasting seal, rely on the experience and design expertise of Bearings Plus. Efficiency gains coupled with a replaceable bristle pack provide valuable savings for your critical sealing needs.

*US Patent 6,231,047

ADVANTAGES

- Proven performance
- Low-profile design
- Replaceable bristle pack
- Easy installation
- Flexible sizing
- Modular assemblies
- Labyrinth augmentation
- Custom and reverse engineering
- Quick turnaround times

www.bearingsplus.com | info-bpi@doverprecision.com
BRUSH SEAL EXPERTISE

Our brush seals originated in the aerospace industry with a major brush seal innovator. Since 2008, we have built upon that innovator’s proven, high-quality product, manufacturing methods and engineering know-how to serve the needs of industrial markets around the globe. With a growing installation list of more than 1,600 units, our brush seals are continually chosen for demanding applications.

IDEAL APPLICATIONS

- **Industrial gas turbines**: Bearing, high pressure packing (HPP) and interstage sealing

- **Steam turbines**: Low pressure (LP), intermediate pressure (IP) and high pressure (HP) packing, interstage and tip sealing

- **Compressors**: Impeller eye, interstage and balance piston sealing

- **Turbomachinery utilizing active magnetic bearing systems**

CAPABILITIES

<table>
<thead>
<tr>
<th>Capability</th>
<th>Description</th>
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<tbody>
<tr>
<td>Pressure</td>
<td>Up to 300 psid (20 bar) per row</td>
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<tr>
<td>Temperature</td>
<td>Up to 650°C (1,200°F)</td>
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<tr>
<td>Surface speed</td>
<td>Up to 335 m/s (1,100 ft/sec)</td>
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<tr>
<td>Environments</td>
<td>Air, steam, gas, refrigerants</td>
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<tr>
<td>Housing</td>
<td>Stainless steel, Inconel, others</td>
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<tr>
<td>Bristles</td>
<td>Haynes 25</td>
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<tr>
<td>Diameter</td>
<td>19 mm (0.75&quot;) to 3050 mm (120&quot;) and higher</td>
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<tr>
<td>Configurations</td>
<td>Solid ring, split ring, segmented, cartridge, linear strip</td>
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LEAKAGE COMPARISON

Brush seals can reduce leakage by up to 80%.