

Brush Seals

A Proven Enhancer to Labyrinth Seal Performance

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

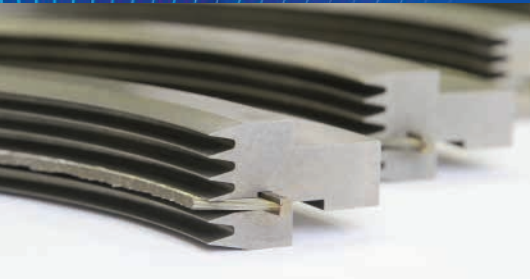
For a high-quality, long-lasting seal, rely on the experience and design expertise of Waukesha Bearings and Bearings Plus. Efficiency gains coupled with a replaceable bristle pack provide valuable savings for your critical sealing needs.

*US Patent 6,231,047

FEATURES AND BENEFITS

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

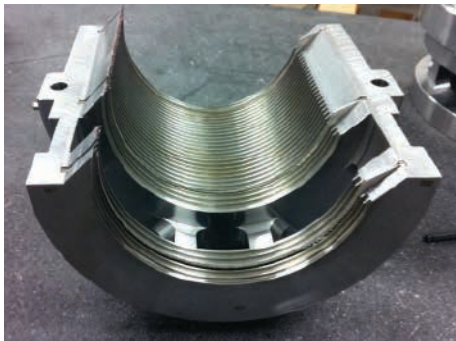




BRUSH SEAL EXPERTISE

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.



Custom augmented baffle

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**

Our Promise:

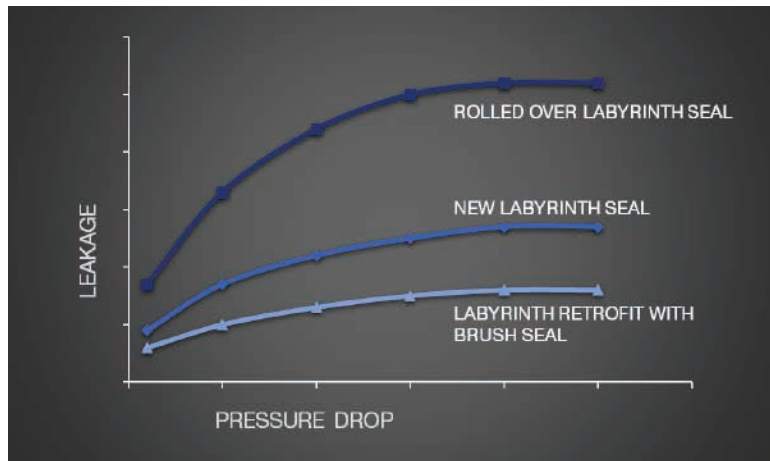
Only Waukesha Bearings® has the culture, commitment and entrepreneurial spirit to drive technological breakthroughs and operational excellence that exceed our customers' expectations globally.

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CAPABILITIES

Pressure:	Up to 300 psid (20 bar) per row
Temperature:	Up to 650°C (1,200°F)
Surface speed:	Up to 335 m/s (1,100 ft/sec)
Environments:	Air, steam, gas, refrigerants
Housing:	Stainless steel, Inconel, others
Bristles:	Haynes 25
Diameter:	19 mm (0.75") to 3050 mm (120") and higher
Configurations:	Solid ring, split ring, segmented, cartridge, linear strip

LEAKAGE COMPARISON



Brush seals can reduce leakage by up to 80%.



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