



HELICOCARB®

CARBON FIBER BRUSH SEALS

High-performance rotating sealing solutions
for critical industrial applications

Technetics
GROUP

The HELICOCARB® carbon brush seal, robust and easy to integrate, offers good adaptability to your service and operating conditions as well as performance improvements for your equipment. This sealing solution also allows you to reduce your total cost of ownership while ensuring safety and reliability of your installation.

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APPLICATIONS

The HELICOCARB® seal can replace existing seals in the following applications:

CENTRIFUGAL GAS COMPRESSOR	AERO ENGINE	BEARING SEALS
		
CENTRIFUGAL PUMP	INDUSTRIAL AIR FANS	GEARBOX
		

	Advantages of Using HELICOCARB® Seals
● LABYRINTHS SEALS	Lower leak rate, improved efficiency, easier to integrate & to install, no leakage during shut down sequences
● METAL BRUSH SEALS	Lower friction, no shaft abrasion, bi-directional
● CONTACT MECHANICAL SEAL	Lower friction, higher speed
● DRY GAS MECHANICAL SEAL	Longer lifetime, bi-directional, more robust, easier to integrate & to install
● LIP SEAL	Higher speed, higher temperature, lower friction, longer lifetime

BENEFITS

- Improved energy efficiency
 - Leakage reduction: up to 90% gain compared to labyrinth seals (depending on conditions)
 - Low-friction torque resistance
 - Low shaft abrasion
- Simple, robust and reliable
 - Easy to integrate and easy to install
 - Customizable design for optimized integration within assembly (materials casing, carbon fiber layer)
- Improved lifetime



TECHNICAL CHARACTERISTICS

- Pressure:
 - Standard: up to 2 bars ΔP
 - Special designs for higher pressure applications
- Temperature: up to 450°C
- Shaft Speed: up to 160 m/s
- Media: gas (air, mist oil), liquid (water, oil)
- Bi-directional



For other service conditions, please contact our engineering department for a customized solution adapted for your application.

technetics.com/products/helicocarb

Contact Us Today to Discuss Your Application

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