

SAINT-GOBAIN SEALS APPLICATION CASE STUDY

Industrial: Case of the Inefficient Air Screw Compressor



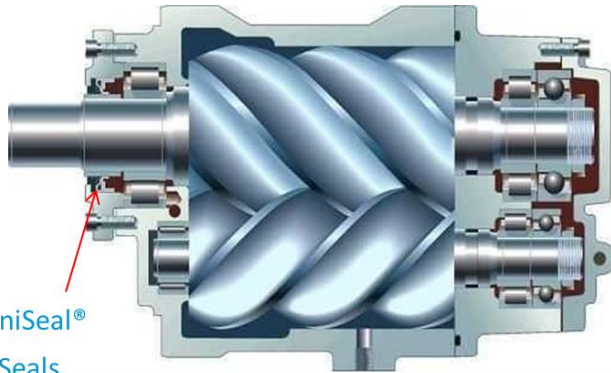
CUSTOMER CRITICAL DIFFERENCE

Industrial compressors are important to small and large-scale businesses for machines to generate power and perform functions. There are different types of compressors: vane, scroll, reciprocating, centrifugal and screw. Rotary screw compressors are taking up the share of reciprocating compressors as a result of better efficiency and reliability due to improved rotor profiles, which have reduced internal leakage. Up to 30% of industrial jobs could not be done without high-density, high-pressure air pumped by rotary screw compressors and if they malfunction, the result could be very costly.

With our custom OmniSeal® rotary lip seal, our customers receive lifetime confidence in equipment that even under extreme conditions or temperatures can still have low energy consumption, running 24 hours a day, 7 days a week, for many years!

CONNECTED APPLICATION

- **OmniSeal® rotary lip seal:** Used in screw vacuum pumps.



OmniSeal®
Lip Seals

Solution Team: Shanghai, China Team

sealsmarketing@saint-gobain.com

www.seals.saint-gobain.com

IND-ACS502, ©2018 Saint-Gobain Seals

Critical parts
making THE difference



SEALS

SAINT-GOBAIN



SAINT-GOBAIN SEALS APPLICATION CASE STUDY



Industrial: Case of the Inefficient Air Screw Compressor

PRODUCT SOLUTION

OmniSeal® 80 or 90 Series

AREA

Air Screw Compressor

MATERIAL

Fluoroloy®

CRITICAL PART

Rotary Lip Seal

TECHNICAL DETAILS

- Media: Water, Nitrogen & Oil
- Pressure: 0.1 to 1.7 MPa
- Temperature: 66°F (20°C) to 93°F (200°C)
- Speed: Up to 25 m/s
- Surface Roughness: Ra 0.8-1.2



BENEFITS AND ADDED VALUE

- Hydrodynamic Features Provide:
- Positive pumping – Sealing
 - Self lubricating extended seal/shaft life
 - Reduced friction, torque & heat generation
 - Increased runout capability

sealsmarketing@saint-gobain.com

www.seals.saint-gobain.com

IND-ACS502, ©2018 Saint-Gobain Seals

Critical parts
making THE difference



SEALS

