

LAND BASED TURBINES ENGINEERED SOLUTIONS FOR DEMANDING ENVIRONMENTS



Inside the world's most critical and demanding applications, you'll find innovative solutions from Technetics Group.

From the center of a nuclear reactor pressure vessel to the deepest recesses of a jet engine propelling 250 tons of steel across the sky, Technetics Group is your globally trusted source for sealing technology products that are custom-designed to meet your critical requirements and extreme applications.

WE THRIVE ON CHALLENGE

We're experts at designing solutions for applications in the world's most demanding environments. Our products support industries that are vital to the well being of people all over the world, including nuclear power generation, aerospace, semiconductors, oil and gas, pharmaceuticals, medical applications and land based turbines. In these markets, details are essential to safety and reliability. That is why we remain dedicated to providing the utmost dependability and customized solutions from inception through installation, inspection and service.





The technologies behind land based turbine power generation are evolving rapidly.

As such, new turbines are constantly being designed, developed and perfected. Technetics Group offers a breadth of sealing solutions that are custom-engineered to your precise specifications. Our engineers work with you, adhering to your component designs with peerless attention to detail.

Technetics Group has unsurpassed experience creating sealing solutions for new and mature land based turbines, mobile and stationary, as well as with sealing solutions for heat recovery steam generators.

OUR CREDENTIALS INCLUDE: over 50 years as a global leader in seal design and manufacture in the land based and aerospace turbine industries. Seal design for high-efficiency, low-emission gas turbines. Being at the forefront of all new land based turbine seal designs. Individual seal design and recommendations for newly built land based turbine units.

QA SYSTEM ASSESSMENT

ISO 9001
AS 9100 Rev B



SUPERIOR SERVICE AND SUPPORT

Your relationship with Technetics Group does not simply end with the sale of a product. Our engineering and service teams will work with you to install and test your sealing solutions to ensure that our products meet your highest performance standards. Design issues are solved through finite element analysis as well as through test-bed simulation of your application, hardware and operating parameters.

Inside the turbine, seals are required to withstand tremendously high temperatures and ultra-fast speeds.

Technetics Group Feltmetal® abrasible seals and brush seals are designed to not only withstand these extreme conditions, but to do so while also increasing output and efficiency.

FELTMETAL® ABRADABLE SEALS

Technetics Group Feltmetal abrasible seals provide superior blade tip and labyrinth seal applications up to 1400°F (760°C). Our Feltmetal abrasible seals are custom designed for incorporation as your turbine's blade inner and blade outer seals. They can be manufactured in virtually any thickness or size and can be rolled, formed or machined to your exact requirements.



BRUSH SEALS

Brush seals from Technetics Group allow you to reduce leakage by 5 to 17 times over traditional labyrinth seals, allowing you to dramatically increase power generation and overall turbine efficiency. Technetics Group brush seals can be custom-manufactured for your specific application and delivered as a single unit or in multiple segments depending on your requirements. Please contact your Technetics Group representative for an engineered solution.



Technetics Group offers a powerful lineup of metal seals and components, custom-engineered specifically for your land based turbine application.



O-FLEX™



HELICOFLEX®



C-FLEX™



E-FLEX™



METAL BELLOWS



METAL SEALS

LAND BASED TURBINE APPLICATIONS INCLUDE

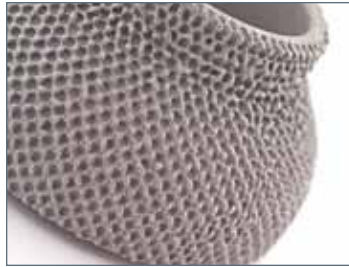
*Turbomachinery
High-Pressure Compressors
Low-Pressure Compressors
High-Pressure Shafts
Low-Pressure Shafts
Combustion Chambers
High-Pressure Turbines
Low-Pressure Turbines
Fuel Nozzles*

COATING AND TEXTURING SERVICES

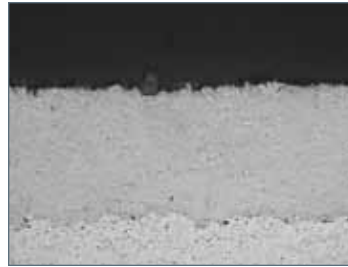
Technetics Group can provide your organization with technical expertise whether you require thermal spray coatings (HVOF and plasma), CVD coatings, PVD coatings, materials selection or other engineering services. In addition, Technetics Group offers a wide range of texturing services such as Lavacoat® metal surface treatment.



SPRAY-COATING SERVICES



TEXTURING



P-COAT® MICROTTEXTURING

ADDITIONAL CAPABILITIES

In addition to our metal seals and components and spray coating and texturing services, Technetics Group offers additional capabilities, including the production of custom polymer, elastomer and graphite seals and components.



**PTFE, PEEK & POLYMER
SEALS AND MACHINED
COMPONENTS**



**CEFILAIR®
INFLATABLE SEALS**



ELASTOMER SEALS



ORIGRAF®

For more information on how Technetics Group affects the land based turbine industry, visit techneticsgroup.com/LBT.

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