

INDUSTRIAL TURBINES ENGINEERED SOLUTIONS FOR DEMANDING ENVIRONMENTS®



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

At Technetics, we offer durable, high-performance and precisely engineered sealing solutions and system components for a wide range of industrial turbine applications.

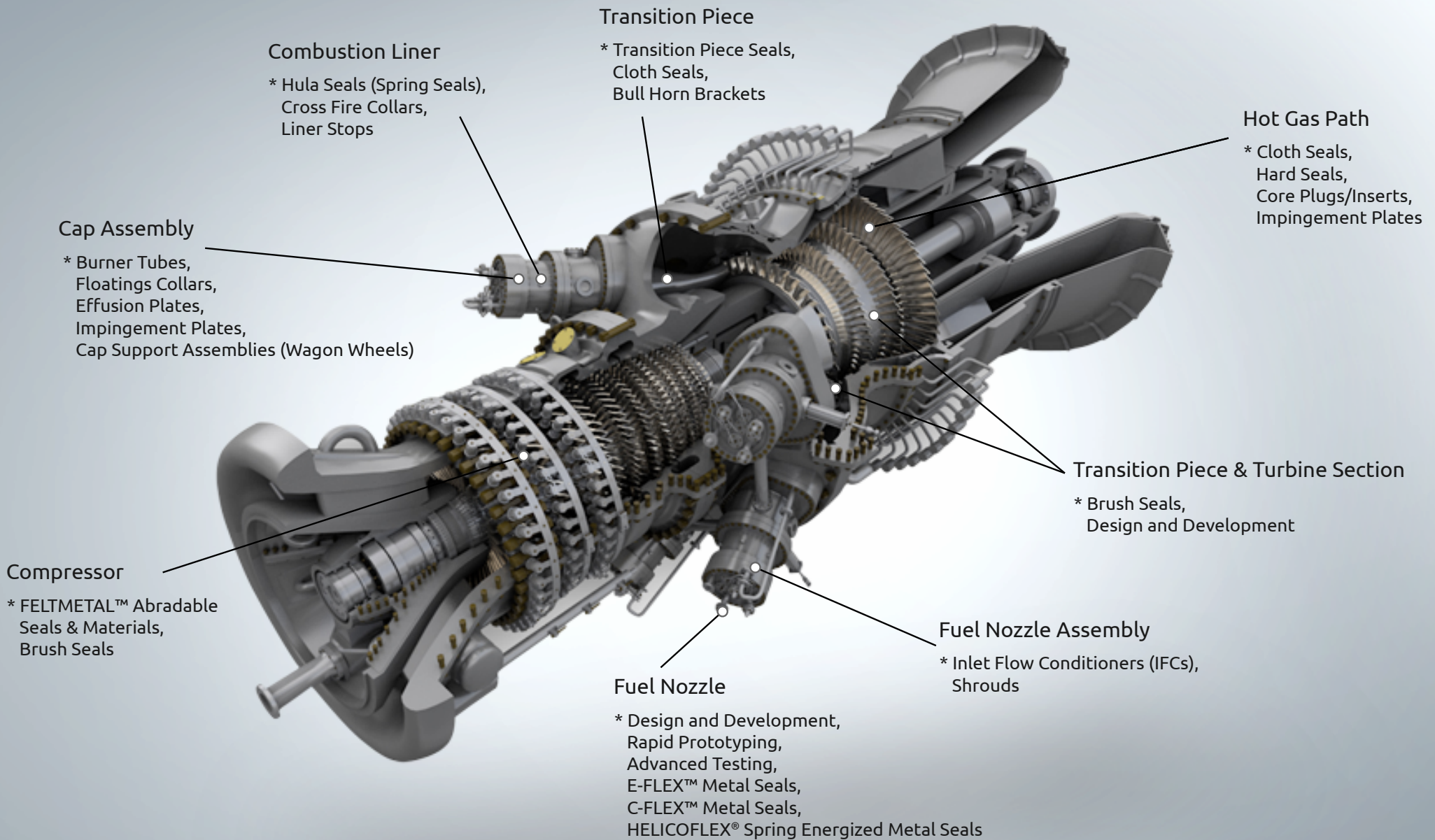
WE THRIVE ON CHALLENGE

We're experts at helping you perfect your designs for the world's most demanding turbine applications. We also approach product development as a collaborative effort, spending time to fully understand the complexities of your needs and developing solutions that deliver unparalleled durability, reliability and performance.

Our ability to fabricate exotic alloy components to machined tolerances is our way of adding value for you to ensure your assembly designs meet optimal combustion and air flow specifications thus driving turbine efficiency.

Our large engineering team has decades of experience supporting the design and manufacture of fuel nozzle, combustion, and hot gas path components, with specific expertise in design-for-manufacturability analysis. Our engineering, fabrication, air flow testing, machining, and heat treating capabilities allow us to respond to a variety of needs.

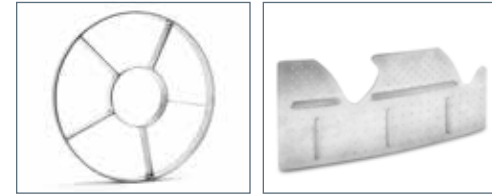




The technologies behind industrial turbine power generation are evolving rapidly.

Our engineers work with you, adhering to your design specifications with peerless attention to detail. At Technetics, we have unsurpassed experience helping customers solve problems for new and mature industrial turbines, both for new builds and installed systems. We also have extensive capabilities in the area of sealing solutions for heat recovery steam generators.

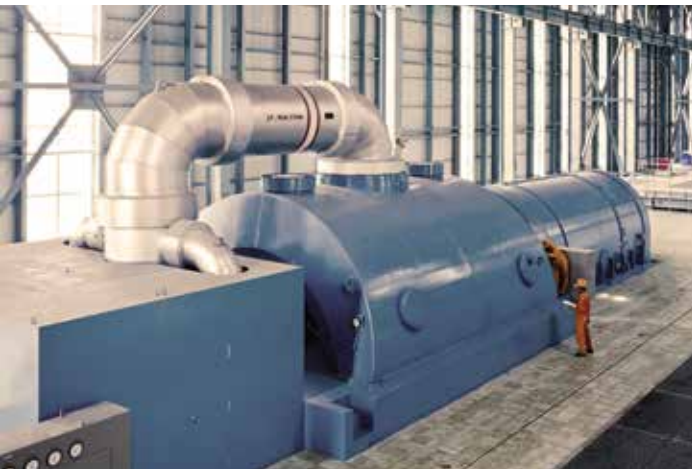
OUR CREDENTIALS INCLUDE: over 50 years as a global leader in seal and component design and manufacture in turbine markets. We focus on the combustion and hot gas path sections in turbines, specifically the manufacture of seals (spring seals, flat seals, transition piece seals, brush seals), impingement tubes and plates, cap assembly components, combustion liner and transition piece hardware, as well as fuel nozzle components and assemblies. These parts are critical in helping you improve combustion efficiency and lengthen turbine service intervals.



QA SYSTEM ASSESSMENT

ISO 9001

AS 9100 Rev B



SUPERIOR SERVICE AND SUPPORT

Your relationship with us 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 and component 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.

Technetics brush seals are designed to not only withstand the high temperatures and ultra-fast speeds of modern turbines, but do so while increasing output and efficiency.

BRUSH SEALS

Brush seals from Technetics 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. Our brush seals can be custom-manufactured for your specific application and delivered as a single unit or in multiple segments depending on your requirements.

Our Capabilities:

- Diameters ranging from 2 inches - 110 inches
- Manufacturing methods include machining, brazing, plating, welding, & heat treating
- Single & multiple brush designs
- Brushes can be produced on the outside & inside diameter of the ring, both for stationary and rotating seals
- Brush angle of 0° - 60° with a packing density of 2500-5000 wires per inch
- Wire alloys include Haynes 25, Hastelloy X, Inconel 600, and stainless steel
- Fiber diameter of 4 mil and 5.6 mil are primary sizes, but we can also work with larger & smaller size wire



Technetics offers a powerful lineup of custom-engineered components for critical turbine applications.



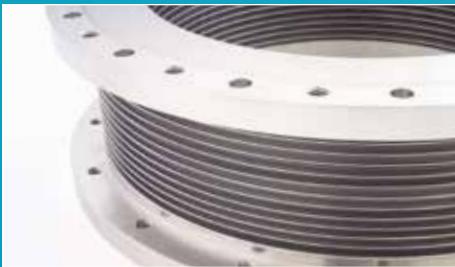
INLET FLOW CONDITIONERS



CAP SUPPORT ASSEMBLIES



IMPINGEMENT TUBES



**BELFAB® EDGE-WELDED
METAL BELLOWS**



RETAINERS



IMPINGEMENT PLATES

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*

HIGH-PERFORMANCE SEALS FOR CRITICAL APPLICATIONS

Technetics provides custom-engineered sealing solutions for the world's most extreme applications. Our seals are made specifically for your application and are designed to be your pinnacle solution.



FLAT SEALS



TRANSITION PIECE SEALS



ENGINEERED METAL SEALS



**FELTMETAL™
ABRADABLE SEALS**



HULA SEALS



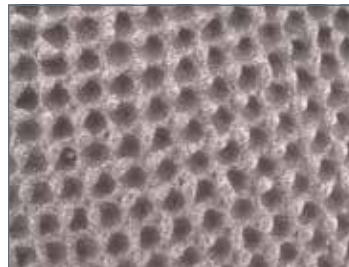
BRUSH SEALS

ADDITIONAL CAPABILITIES & VALUE ADDED SERVICES

In addition to seals and components, we offer electron beam welding and texturing services.



ELECTRON BEAM WELDING



TEXTURING

For more information on how Technetics affects the industrial turbine industry, visit technetics.com/industrial-turbines.

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