

Technetics GROUP

EnPro Industries companies



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, component and sub-system technology products that are custom-designed to meet your critical requirements and extreme applications.

Technetics Group combines the experience, foresight and innovation needed to meet the demands of a rapidly advancing technological age. Our unique make-up unites the expertise of several global manufacturing locations, working toward a common goal to remain at the forefront of not just one industry, but many markets and applications. For the design and manufacture of sealing solutions and critical components, and special processes such as plating, texturing, coating, E-Beam welding, testing and refurbishment, Technetics Group is there to provide you with the ideal solution.

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, semiconductor, oil and gas, pharmaceutical, medical and industrial 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.



OUR SOLUTIONS ARE CUSTOM-ENGINEERED, EVEN FOR CUSTOM-ENGINEERED MARKETS.

Technetics Group has earned its reputation as a leader in the markets that we serve through innovation, top-quality customer service, application engineered solutions and overall responsiveness to emerging design features. As such, we are fully qualified to provide a sealing, component or subsystem solution for your application, even if it does not fall into one of our core market focuses. As a world leader in the sealing and component industries, Technetics Group is eager to help you find an innovative solution for your demanding environment.



METAL SEALS



ELASTOMER SEALS AND PROFILES



CEFIL'AIR® INFLATABLE SEALS



BELFAB® BELLOWS AND ASSEMBLIES



TURBINE COMPONENTS



PTFE & OTHER POLYMER COMPONENTS



PTFE SEALS



HELICOFLEX® SPRING ENERGIZED SEALS



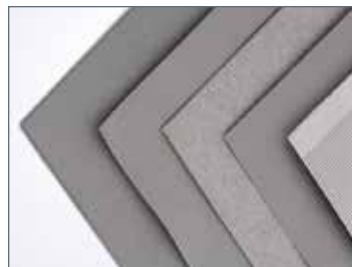
PLATE SEALS



BRUSH SEALS



FELTMETAL™ ABRADABLE SEALS



FELTMETAL™ ACOUSTIC MEDIA



BURST DISCS



CHAMBER SUB-SYSTEMS



SPECIAL PROCESS SERVICES

AEROSPACE



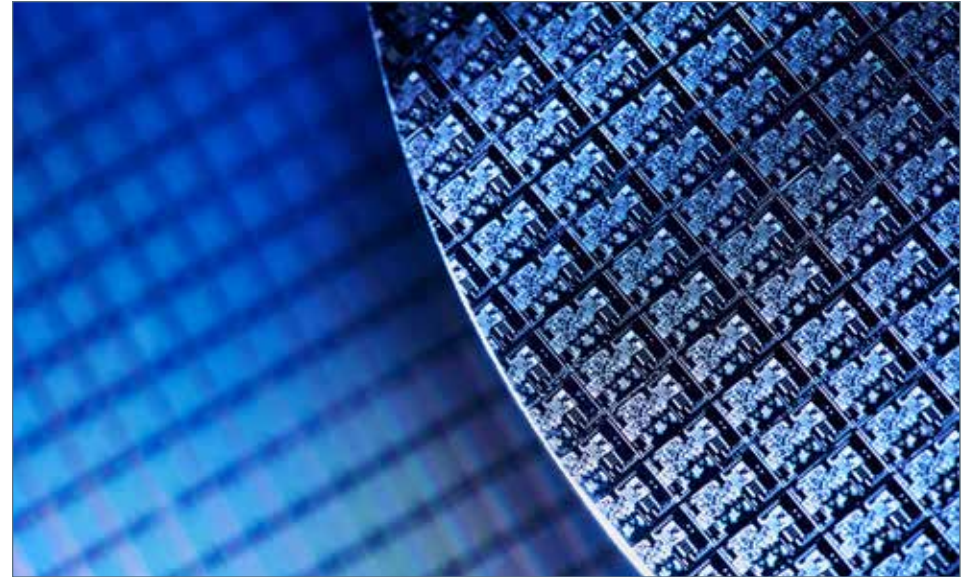
We understand the hassles caused by an Aircraft on Ground.

At Technetics Group, we strive to develop the most efficient and durable sealing solutions and components in the aerospace industry. From deep inside the high-pressure compressors of your jet engines to the seals around your windows, Technetics Group is there to ensure your aircraft remains in the air where it belongs.

We offer a wide range of custom-designed sealing solutions and components for aerospace turbomachinery, doors and windows, heating and cooling units, and other critical assemblies.

Technetics Group is a leader in the design and manufacture of custom metal and polymer seals, brush seals, engineered acoustic materials and noise attenuation, SAFE-SHEAR® burst discs, high-temperature alloys and high-pressure accumulators, as well as ultra-low-leakage rate PEEK and PTFE seals and components.

SEMICONDUCTOR



Precisely engineered components for a precise market.

Semiconductors are constantly progressing. You need a sealing partner that does the same. Technetics Group designs and manufactures complex front-end wafer-process assemblies, including pedestals and electrostatic chucks, improved with advanced coatings. Our fully tested assemblies are delivered to your integration point, final testing facility or to any depot for spares consumption.

In addition to pedestal and ESC assemblies, Technetics Group is home to BELFAB® edge-welded metal bellows, with long-life solutions for critical actuating, compensating, connecting, manipulating, sealing, vacuum barrier and valving systems where purity and reliability are paramount.

Technetics Group thrives on top-down operational excellence in bellows design. We have produced over 500,000 bellows and over 12,000 new and refurbished pedestals. We are a key/preferred supplier to leading equipment OEMs and fabs thanks to our quick-turn prototyping, on-time delivery and strict process control.

OIL & GAS



Fueled to help you reach your most critical goals.

Whether you're exploring, producing, transporting or refining, Technetics Group is your partner for custom-designed solutions in the oil and gas industry. From precision downhole components, to polymers, to the production of our BELFAB® bellows assemblies, we tailor our products to your exact specifications.

We offer innovative technologies and precision components for downhole drilling, logging while drilling (LWD), measurement while drilling (MWD), blowout preventers, electric submersible pumps (ESPs), artificial lifts and fracking.

Technetics Group is an integral provider of long-life solutions for critical actuating, compensating, connecting, manipulating, sealing, vacuum barrier and valving systems in the oil and gas industry. We have built our reputation on a foundation of application engineering expertise, innovation, customer service, quality and integrity.

NUCLEAR



In the nuclear power industry, there's no such thing as "off the shelf."

At Technetics Group, our sealing and component solutions are custom-engineered to your precise specifications. Our engineers work with you, adhering to your component designs with peerless attention to detail.

Technetics Group creates custom-engineered sealing solutions for new nuclear power plants, existing nuclear power plants, spent fuel casks, fission reactors, enrichment plants and national laboratories.

Our credentials include extensive knowledge in the design and manufacture of nuclear RPV sealing solutions, seal design for all major spent fuel transportation and storage casks, being at the forefront of all new reactor pressure vessel seal designs, and individual seal design and recommendations for newly built PWR and BWR units.

INDUSTRIAL TURBINES



Revolutionary sealing solutions for evolutionary technologies.

The technologies behind industrial turbine power generation are evolving rapidly. As such, new turbines are constantly being designed, developed and perfected. Technetics Group offers a breadth of sealing and component 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 custom-designs sealing solutions for new and mature industrial turbines, mobile and stationary, as well as with sealing solutions for heat recovery steam generators.

Our credentials include unsurpassed experience as a global leader in seal design and manufacture in the industrial and aerospace turbine industries, seal design for high-efficiency, low-emission gas turbines, being at the forefront of all new industrial turbine seal designs, and individual seal design and recommendations for newly built industrial turbine units.

VALVES



Sealing solutions and components that are reliable under pressure.

Technetics Group offers innovative solutions for the design and production of ball valves, butterfly valves, relief valves, globe valves and gate valves. Whether your valves are being used in the oil and gas industry, power generation, steam production, industrial services or the nuclear industry, Technetics Group has the application engineering expertise to design custom solutions for your products.

Products offered to the valve industry include metal seals, graphite seals, polymer solutions, and edge-welded metal bellow technology.

PHARMACEUTICAL



A solid clean room starts with a good seal.

In the clean-room environment, seal integrity is vital. Air leaks, ingredient accumulation, gasket fragmentation and the development of microorganisms can lead to significant downtime. Prevent process contamination with engineered solutions from Technetics Group.

Typical seals offer uneven contact pressure, allowing for critical seal leaks that can lead to lost production time and wasted high-value ingredients. Technetics Group offers custom-engineered solutions, such as CEFIL'AIR® BIO-GUARDIAN® inflatable seals, developed with anti-contamination sealing materials. Our solutions prevent outside air from passing through a closed door, while also preventing the development of microorganisms on the surface of the seals. The results are less downtime from cleaning and seal replacement, the prevention of contamination at the seals and valves, and the prevention of leakage of high-value pharmaceutical ingredients.

MEDICAL



Unmatched medical device and component assembly.

Technetics Group, home to BELFAB® Products, is your responsive partner in the medical industry. We custom-design and manufacture high-precision, edge-welded metal bellows assemblies for numerous market sectors within the industry, with the utmost attention to detail.

The components designed by the professional engineers at Technetics Group are used in a wide range of cutting-edge products in the medical industry, including cochlear implants, insulin dispersion, vacuum and implantable pain pumps, ultrasound and cardiac arrhythmia control, to name just a few.

Our innovative products are designed for the highest cycle life possible (one million + standard), leak tight to 1×10^{-10} standard cc/sec Helium, cleaned to the highest industry standards, able to withstand extreme temperature limits, corrosion resistant, available with electropolishing and have low magnetic permeability.

For more information on how Technetics Group affects your critical markets, visit technetics.com.

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