

NUCLEAR POWER 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 and component technologies 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.



Design and testing are conducted in our unique, world-class laboratory, operating since 1969 in conjunction with the CEA (French Atomic Energy Commission). From reactor pressure vessel seal design to the resurfacing of grooves in mature reactors, we have the right solution for each critical environment.





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 has unsurpassed experience creating solutions for new nuclear power plants, existing nuclear power plants, spent fuel casks, fission reactors, enrichment plants and national laboratories.

OUR CREDENTIALS INCLUDE: over 50 years as a global leader in nuclear RPV seal design and manufacturing. Seal design for all major spent fuel transportation and storage casks. Being at the forefront of all new reactor pressure vessel seal designs. Individual seal design and recommendations for newly built PWR and BWR units.

QA SYSTEM ASSESSMENT

ISO 9001
Title 10 CFR 50 Appendix B
ANSI / ASME N45.2
Favorable audits by NUPIC Members
ANSI / ASME NQA-1
KTA 1401



SUPERIOR SERVICE AND SUPPORT

Your relationship with Technetics Group does not simply end with the sale of a product. We work with you, on site, to ensure you receive the highest level of satisfaction, including installation, inspection, laser scan and repairing of mating surfaces on RPV closure head grooves and nuclear pressure vessel flanges.

The reactor pressure vessel. Here, a good seal is of the utmost importance.

Technetics Group offers a variety of sealing solutions custom-designed for direct inclusion in a variety of nuclear reactor pressure vessel and other applications.

O-FLEX™

Technetics Group O-FLEX seals offer optimum strength, spring back and resistance to radiation and corrosion. O-FLEX seals provide reliable, durable sealing strength for traditional nuclear reactor pressure vessel applications.

HELICOFLEX®

Helicoflex spring-energized seals are high-performance, flexible metal seals that have exceptional compression and elastic recovery properties. Helicoflex seals are composed of close-wound helical springs, each surrounded by two metal jackets. The springs are selected to have specific compression resistance to match your exact application.

Technetics Group offers a powerful lineup of metal seals, including reduced-scale versions of our trusted O-FLEX™ and Helicoflex® seals, custom-engineered specifically for your nuclear power application.



O-FLEX™



HELICOFLEX®



C-FLEX™



E-FLEX™



ORIGRAF®



HYDRODYNE®

NUCLEAR APPLICATIONS INCLUDE

- Reactor Pressure Vessels*
- Steam Generation*
- Primary Pumps*
- Pool Gates*
- Nuclear Valves*
- Secondary Loops*
- Turbines*
- Control Rods*
- Fuel Enrichment*
- Pellet Processing*
- Transfer Casks*
- Transportation Casks*

CUSTOM COMPONENTS AND SPRAY-COATING SERVICES

Certain applications require the use of non-metal sealing components. Technetics Group offers many solutions including custom polymer components and seals, elastomeric seals, inflatable seals and spray-coating services.



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



**CEFILAIR®
INFLATABLE SEALS**



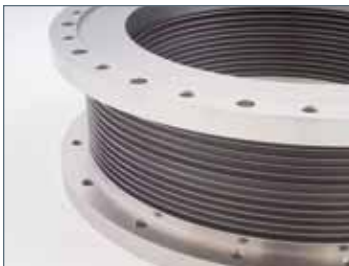
ELASTOMER SEALS



SPRAY-COATING SERVICES

ADDITIONAL CAPABILITIES

In addition to our metal, elastomer and polymer sealing solutions, Technetics Group offers additional capabilities, including the production of custom metal bellows, brush seals, Feltmetal® abrasable seals and our time-saving Quick Disconnect System (QDS®).



METAL BELLOWS



**QUICK DISCONNECT
SYSTEM (QDS®)**



BRUSH SEALS



**FELTMETAL®
ABRADABLE SEALS**

For more information on how Technetics Group affects the nuclear power industry, visit techneticsgroup.com/nuclear.

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