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- HPHT Sealing Stacks**
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**Machined
sealing
products
for exploration
and production
applications**



THE MOST CONVENIENT, COLLABORATIVE, AND FLEXIBLE WAY TO SOURCE YOUR SEALING SOLUTIONS.

The lower-for-longer oil price environment has affected all segments in the upstream sectors value chain. And with uncertainty and volatility here to stay, exploration and production companies need to be able to work collaboratively with their supply chain — at KC Seals, our processes and procedures are flexible. We offer rapid deliveries, no minimum line or order quantities, online instant quotes, affordable tooling fees, and same-day response times: we work with you to find the right sealing product at the right price and for when you need it. It's the most convenient way to source your sealing solutions.



Convenient, Collaborative, Flexible

We're easy to deal with; it's as simple as that. We offer same-day response time, rapid deliveries, flexible procedures, instant online quotations, downloadable CAD files, and no line-price minimums.



Advanced Thermoplastics and Elastomers

Our thermoplastics and elastomers are specifically formulated for the harsh environments typically seen in exploration and production applications. This includes compounds that offer resistance to temperature, extrusion, RGD, and superheated steam.



Quality Assurance

With every order, our clients can expect a detailed quality report. This includes dimensional information calibrated by our Zeiss O-Machine and Keyence CMM, both of which utilize optical and contact measurement technology in a comprehensive analysis. KC Seals is ISO 9001 certified.



Most Affordable Tooling Fees

Setup fees can be a major deterrent when deciding to move forward with a project. KC Seals makes it easier by making all our compression molds in-house, saving you time and money.



Custom Molded and Machined Sealing Solutions

Machining rubber and plastics, as well as compression molding can be complicated if you lack the know-how. With over 30 years of experience in manufacturing rubber and plastic sealing parts, KC Seals is the ideal resource for complex polymeric sealing profiles.

OUR PRODUCTS CAN BE FOUND IN EXPLORATION AND PRODUCTION APPLICATIONS ALL OVER THE WORLD.



Packer Elements

Skip mold fees and save time with our machined Packer Elements. It's the ideal solution for prototyping and low quantity orders. Our Elements are machine from our in-house-made rubber billets, which are cast in urethane to provide a consistent and quality finish every time.



PEEK Back-ups

KC Seals only manufacturers PEEK Back-Ups from rods and tubes that have been molded using Victrex 450G granules. No other PEEK polymer has been so carefully investigated when it comes to oil and gas sealing environments, and that is precisely why the next time you order your PEEK Back-ups, make sure to ask: "is it Victrex 450G".



T-Seals

The simple 3-piece solution for high-pressure applications. The T-Seal is a perfect replacement for an O-Ring in any high-pressure application. It provides excellent sealing performance in both double and single-acting applications.



Spring Energized Seals

Spring Energized PTFE seals offer extreme temperature, high pressure, chemically inert static and dynamic sealing for the most demanding applications. Ideal for rotary applications where friction and wear are of major concern.



Vee Stacks

Vee Stacks are multi-element lip seals, offering high sealing efficiency due to the combined performance of individual Vee-Rings. Incorporating top and bottom adapters made from high modulus compounds such as PEEK provide stability and additional extrusion resistance.

COMMON PRODUCTS



HPT Stack

The HPT Stack is a three-piece, HPHT, doubling acting piston or rod seal. Commonly used as a multi-vee seal stack replacement, such as the ATR or VTR sealing stacks. The HPT stack offers superior sealing performance and has good adaptation possibilities for diverse temperatures and media by the selection of suitable materials.



Custom PEEK Parts

KC Seals offers custom PEEK machining for a variety of exploration and production applications. With over 30 years of experience in machining thermoplastics such as PEEK, KC Seals is the ideal resource for the machining of complex PEEK sealing profiles.



U-Cups

U-Cups are excellent for low-speed, low-pressure environments in both pneumatic and hydraulic applications. With a variety of sealing lip profiles and loading elements, U-Cups can handle a variety of environments depending on style and material.



Urethane Ring Joint Gaskets

Urethane ring joint gaskets are an effective and non-damaging method of testing your application gland before use. The unique shaped profile energizes the seal in the groove under pressure, replicating a stainless-steel R, RX or BX ring joint gasket. KC Seals urethane test gaskets have lasted up to 200 test runs.



Wear Rings

Used in various applications to prevent metal to metal contact, lessen vibration and increase stability, as well as absorb transverse forces. Because guide rings can come in a variety of different materials they can be found in light, medium, and heavy-duty applications.

For over 30 years we've been supplying sealing solutions to the upstream sector conveniently and collaboratively. Contact us today to see why so many of our clients enjoy working with us.

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Multiple ways to engage with us

- Chat with us on-line
- Email
- Downloadable CAD files
- Book a meeting on-line
- Give us a call
- Instant on-line quotations
- Text message