Introduction

Hi-Tech Seals has been distributing oilfield products for the past two decades. We offer a wealth of information and experience when dealing with sealing conditions in a variety of oilfield applications. Hi-Tech Seals was founded in Edmonton, Alberta and has expanded to four locations across Canada. A major part of our success is our ability to source quality parts at affordable prices and stock them for speedy delivery.

This Oilfield brochure is organized into two sections; the first section contains information about general products and services used by most customers. This section is a good starting place for customers who are looking for an introduction to Hi-Tech Seals. If you require products that are specific to your industry, please check out the Products by Industry section. Products offered are not limited to what is listed in this brochure. If you are looking for a product that you do not see within this brochure please do not hesitate to contact your sales representative.

For up-to-date literature or electronic copies please stop by our website located at www.hitechseals.com.
Hi-Tech Seals can manufacture custom molded oilfield products in a short period of time. We have in-house support capable of engineering parts from new or used components. Our staff can create your seal based on metal dimensions, product samples or customer supplied drawings. Hi-Tech Seals also provides engineering support when designing new products.

Products can be created in virtually any rubber or plastic material used by the seal manufacturing industry. Hi-Tech Seals can also provide rubber-to-metal bonded components. If you would like to browse material information, you can visit our chemical compatibility guide on our website www.hitechseals.com.

Hi-Tech Seals Inc. is now placing our H-Caliper Brand (seen here) on custom parts. The H Logo is used to help customers identify parts created by Hi-Tech Seals.
At Hi-Tech Seals, we have three CNC lathes, two NC machines and live tooling capabilities at our disposal. We are capable of creating custom parts with profiles ranging from as small as 1/4" (6mm) inside diameter and up to as large as 29" (737mm) outside diameter within 48 hours. Consult our sales staff for manufacturing options exceeding the given ranges.

In addition to custom designed parts, we have pre-programmed into our computer over 200 existing seal profiles used worldwide. Our ability to quickly manufacture replacement parts can save companies thousands of dollars from costly downtime, or from the cost of scrapping metal parts due to the non-availability of a seal.

At Hi-Tech Seals, we keep up with increasing demand for quick and effective solutions through our rapid prototyping. With the help of our in-house sales, engineering, drafting and machining capabilities we can quickly design and manufacture new prototype parts in a matter of hours without expensive tooling charges.

Hi-Tech Seals works closely with customers to produce long or short production runs at an affordable cost without substituting the quality of the product.
In addition to machining parts we also stock a large range of billets for resale. Billets are available in materials such as, but not limited to:

- PEEK- virgin, glass filled, and carbon-filled
- Teflon® (PTFE)
- And Nylon

Hi-Tech Seals is a Quadrant distributor and supplies a full range of their product offerings. Popular Quadrant compounds include:

- Ketron® PEEK
- Ertalyte® PET-P
- Torlon® PAI
- Nylatron®
- Fluorosint®
- Techtron® PPS

Hi-Tech Seals can also supply machined parts in the new Victrex® ST™ high temperature PEEK compound. This new compound allows parts to reach temperatures up to 300°C.
Hi-Tech Seals stocks a variety of different sealing components used by the petroleum industry. Parts can be provided in many different materials, styles and sizes to create the optimal sealing component for your application. Due to the variety of product requirements and the demand for speedy delivery times, our branches carry over 23,000 unique part numbers in inventory at any given time.

For popular products specific to your industry please refer to the appropriate category in the second half of the brochure. If you require technical data about parts please request literature from your sales representative or check our selection of available literature on our website located at [www.hitechseals.com](http://www.hitechseals.com).
Our accessories have become very popular over the years because of their practical application in the day-to-day life of our customers. These are many of the same tools used by Hi-Tech Seals’ staff when selecting and inspecting parts for shipment.
During transport, pipe and equipment are often met by impacts, debris or the forces of the environment. With the use of protector products you can avoid damage to your threads and pipe ends. Most of our protector products are commonly made of low-density polyethylene. Significant savings can be made by reducing repairs and protecting your production cycle.
Our packing materials are available in an array of sizes and materials. The various types of packing products and materials offered by Hi-Tech Seals help deal with extreme heat, pressure limits and application restraints. We provide Vee Packing sets in any number of different types of stack heights and material combinations. We can provide you with engineer and design support to find a product that works with your application.

Seal Kits

The kit creation program provides customers with an easy-to-use system of reordering groups of product. If you have a specific piece of machinery that undergoes maintenance or if you are manufacturing machinery, this is an excellent system for staying organized. Our sales staff will identify the sealing components in a given piece of machinery and create a kit in our system. The kit can include custom labels with your company's logo and part numbers. The next time you need to order more seals you simply provide the kit number and you will receive a bag with all the parts for your piece of machinery.
Sealed Bagging

One of our services includes our packaging and labeling machine. Hi-Tech Seals can create a customer specific label that suites your needs. Labels can include things such as your company logo, your part numbers, application description, or any other information that is useful to you. We are able to package in black or clear bags and print in black or white ink. After your orders are packaged they are heat sealed to prevent further exposure to the elements before being installed. Hi-Tech Seals also can be hired to do custom packing of any parts you require.

State-of-the-Art Inspection

Hi-Tech Seals has a Micro-Vu Matrix, which is used by the engineering and drafting department to do quality control inspections on close tolerance parts. Using precise measurements of the previous seal, we design a new custom profile to help recreate the product. The precision measurement service is offered on a contract basis. Contact our sales staff or visit our website at www.hitechseals.com for more information about our added services.
Reliable blowout preventer components are an essential. Hi-Tech Seals is a trusted distributor of these key seals. With proper seals your equipment can prevent pressure release and allow you the time required to regain control of the downhole pressure.

Hi-Tech Seals stocks different blowout preventer products in Nitrile, Highly Saturated Nitrile, Viton® and Hytrel®.
MWD Products

- O-Rings
- O-Ring Loaded U-Cup
- Back-Ups
- Ceramic Sleeves
- Membrane
- Bellows
- Centralizer Fins
- T-Seals
- Stainless Steel Snap Rings
- Kapton® Tape
- Lubricant
- Seal Kits
The following components are also available in ceramic material:

- Poppet
- Poppet orifices
- Servo orifices
- Extended servo orifices
Pump Products

- O-Rings
- O-Ring Loaded U-Cup
- Grafoil Rings
- Balls
- Spectraseals®
- Diaphragms
- Oil Seals
- Vee Packing
- Braided Packing Kits
- Mechanical Seals
- Chemical Injection Pump Kit
Valve Cover Gaskets are available in:
- Nitrile
- Cork
- And cork die-cut with steel insert

We stock O-rings in various colours and materials, which are used by the compressor industry, to insure that the correct product is installed in the correct application. We can also provide customized kits and customer specific part numbers which aid in installation and reordering.
Valve Products

- O-Rings
- O-Ring Loaded U-Cup
- Grafoil Rings
- Seat Seals
- Gate Valve Seals
- Snap Rings
- Spectraseals®
- Vee Packing
- Braided Packing
- Flange Protectors
- Balls
- U-Packing
Hi-Tech Seals sells many custom sizes of large cross section rubber components. Wellhead components are commonly stocked in Nitrile or Highly Saturated Nitrile materials.

Drilling Tool Products

- O-Rings
- O-Ring Loaded U-Cup
- Boots
- Wipers
- Lubricated Bushing
- Wear Rings
- Back-Ups
- Balls
- Packer Element
- Misc. Drill Parts
- Tool Maintenance Kits
- Hex Keys/Pins
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ISO 9001
REGISTERED QMS

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