



News & Views from Hi-Tech Seals
Vol. 30 | December 2012

New Branch Open - Conroe, Texas

Conroe Branch Now Open!

Hi-Tech Seals

We are pleased to announce that Hi-Tech Seals has opened a new branch in the city of Conroe, Texas, located just outside of Houston. The location is scheduled to be fully operational on December 1st and will be a fully serviced and stocked facility for our US clientele.



The new location is situated at 105 Gladstell Street and features 10,000 square feet of office and warehouse space. Kevin DeVries will oversee branch operations. He brings with him an extensive background in the wire line industry, having worked with Brace Tools and Bulldog Wireline in the past.



The Texas location is Hi-Tech Seals' sixth North American operation and 1st operation in the US. We are quite excited to expand to this growing market and look forward to servicing existing and new clients from our Conroe office.

If you have any questions regarding the Conroe office, please feel free to visit www.hitechseals.com or email dwayne.schmidt@hitechseals.com

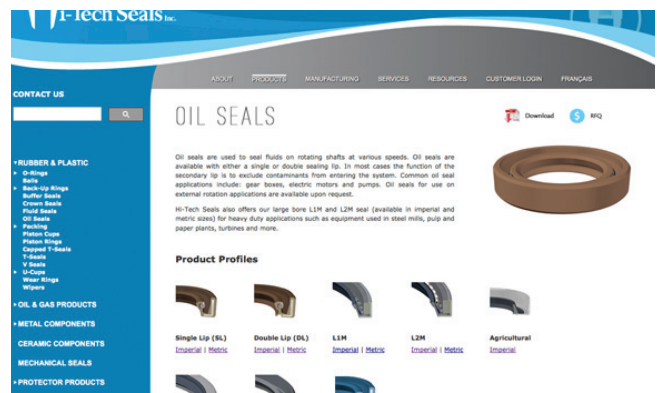
New & Improved hitechseals.com!

Website overhaul

Hi-Tech Seals would like to invite customers to visit our recently updated website. The new website has an expanded product section, manufacturing capabilities and new details about services offered by Hi-Tech Seals.

Product Section

Our product section now includes seals, wear components, custom molded parts, metal and ceramic components, gaskets, thread protectors and vibration mounts. While visiting a product page, such as Oil Seals, you will notice the addition of high quality images and links to the metric and imperial part numbers. Part numbers are now available for viewing without having to download literature.



Manufacturing Section

Hi-Tech Seals offers extensive manufacturing capabilities which includes: rubber and plastic machining; in-house manufacturing of static o-rings using splicing and vulcanizing equipment; cast urethane molding and most recently gasket manufacturing through Hi-Tech Gaskets. Visitors to the website can learn about standard materials and dimensional capabilities.

Services Section

While visiting the website you can find out more about added services including laser engraving, PTFE coated o-rings and our kit creation program.

Do you have suggestions for content or improvements? Email graham.necyk@hitechseals.com.



Technically Speaking

Engineered Spring Technology

A SpectraSeal® is a spring energized plastic U-cup. The spring loads the sealing lip against the mating surface creating a seal. The design allows the seal to compensate for fluctuations in pressure and wear on sealing lip. The majority of SpectraSeals are made of filled PTFE, however, they are available in PEEK, UHMW-PE, Acetal and Nylon.

SpectraSeals are typically used in applications where conventional elastomeric seals are not acceptable due to application conditions such as:

- Media compatibility
- Friction sensitive applications
- Dynamic sealing of abrasive or non-lubricated media
- Temp. extremes -267°C to 287°C (-450°F to 550°F)
- High surface speeds
- High PV rates (Pressure x Velocity)
- Explosive decompression

Spring

Most springs are composed of stainless steel; however, Hastelloy®, Inconel and Elgiloy® are used in applications that require additional corrosion resistance.

Cantilever Spring (A.K.A. a finger spring)

A Cantilever spring is recommended for dynamic, medium load applications where low friction is desired. The V-shape spring provides constant compression load and is further energized by system pressure.



Helical

A helical wound spring is made from a metal ribbon, which is coiled into a helix. The spring compresses radially producing

a very high load versus deflection. The helical wound spring is preferred for static applications or applications where sealability is more of a concern than friction.



Canted Coil

A canted coil spring is manufactured from a round wire that is coiled and angled, creating compression spring in the radial direction. The canted coil design is suited for dynamic applications where low friction is critical.



To learn about Spectraseal lip profiles, visit:
<http://www.hitechseals.com/spectraseals.asp>

Seal School

Interested in learning more about seals and elastomers? Hi-Tech Seals offers lunch & learn classes. Let us treat you to lunch while educating you and your colleagues on one of the following topics:

- Seal Theory
- Polymer Chemistry
- Common Seal Materials
- And many more!

For more information, contact your sales representative at:
info@hitechseals.com



Hi-Tech Gaskets

Sheet Material

Interested in buying sheets of gasket material? Hi-Tech Gaskets offers full sheets of rubber and non-asbestos materials. Rolls of rubber material are stocked in four feet width by fifty feet and sixty-six feet lengths. Hi-Tech Gaskets can cut material to the desired length. Rubber materials are available in 1/64", 1/32", 1/16", 1/8", 3/16", 1/4", 5/16" thicknesses.

- Red Rubber
- Neoprene
- Cork/Nitrile
- Fluorocarbon
- EPDM
- Neo-Nylon

Non-asbestos sheets are manufactured in five by five foot sheets. The standard thicknesses include 1/64", 1/32", 1/16" and 1/8".

- Nitrile with Aramide Fibres
- Nitrile with Carbon Fibre



Various grades of graphoil sheet are also available upon request. For more material information please visit: www.hitechgaskets.com.

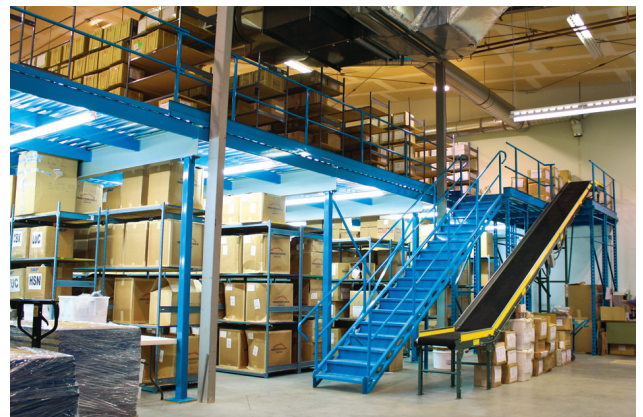
Milestones

We would like to congratulate **Dan Bergen** on completing five years of service with Hi-Tech Seals. From all of the staff at Hi-Tech Seals, we thank you for your hard work and dedication over the years.

Warehouse Expansion

New Mezzanine Increases Storage Capabilities!

Hi-Tech Seals is continually expanding our inventory to offer more product availability. Our Edmonton facility has recently added a 3465 square foot mezzanine to our second bay warehouse. The lower and upper levels have over 11 feet of clearance for tall shelving units as well as a conveyor system to move inventory with greater ease.



Job Opportunities

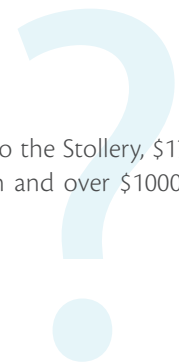
Referral Incentive

Hi-Tech Seals is looking for qualified candidates for Technical Sales positions in Edmonton, Calgary and Winnipeg. If you refer a candidate that is hired and the individual remains with Hi-Tech Seals for six months, we will give you an iPad!

Email resumes to hr@hitechseals.com.

Did you know...

In 2012, Hi-Tech Seals donated \$2650 to the Stollery, \$1700 to Tim Horton's Children's Foundation and over \$1000 to Ronald McDonald House.



Hi-Tech Seals Word Search

Complete the word search and be entered to win a *digital picture frame*.

K	U	W	U	S	A	N	C	H	O	B	E	J	H	V	T	C	O	G	V
Y	K	C	F	U	F	B	K	U	Y	H	D	N	H	T	K	I	I	M	E
F	Z	A	U	K	K	B	Z	S	S	T	I	P	V	C	N	J	J	G	N
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C	V	Q	Z	I	M	K	E	X	B	J	W	U	J	T	M	B	R	A	P
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CONROE
TEXAS
CERAMIC
CANTILEVER
ARAMIDE
STORAGE
DANBERGEN
LITERATURE
WEBSITE
SPECTRASEAL

Please fax your responses to 780.409.9149 by January 15th, 2013.

Name: _____

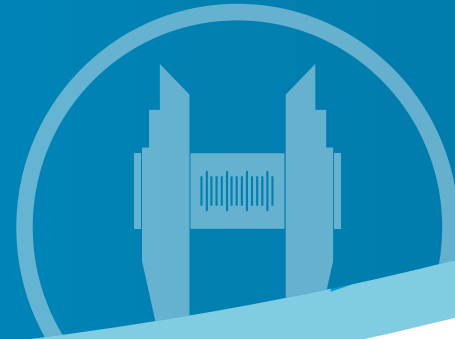
Company: _____

Day Time Phone #: _____

Congratulations to last edition's word search winner, Larry Solodan.



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Toll Free Ph: 1.800.661.6055 | Toll Free Fax: 1.800.465.5866



Hi-Tech Seals Branches:

Bay #3, 5940 - 30 St. SE | Calgary, AB | T2C 1X8 | Ph: 403.720.2856 | Fax: 403.279.2662

445 Egesz St. | Winnipeg, MB | R2R 2V5 | Ph: 204.775.7881 | Fax: 204.775.7954

1180 Kerrisdale Blvd; Unit #8 | Newmarket, ON | L3Y 8Z9 | Ph: 905.953.9666 | Fax: 905.953.8739

1450 Rue Nobel, Suite #20 | Boucherville, QC | J4B 5H3 | Ph: 450.655.7325 | Fax: 450.655.7359

105 Gladstell St. | Conroe, TX | United States | 77301 | Ph: 936.206.3124 | Fax: 936.756.0538

Hi-Tech Gasket Branch:

8760 50 Ave NW | Edmonton, AB | T6E 5K8 | Ph: 780.439.4894 | Fax: 780.436.9502