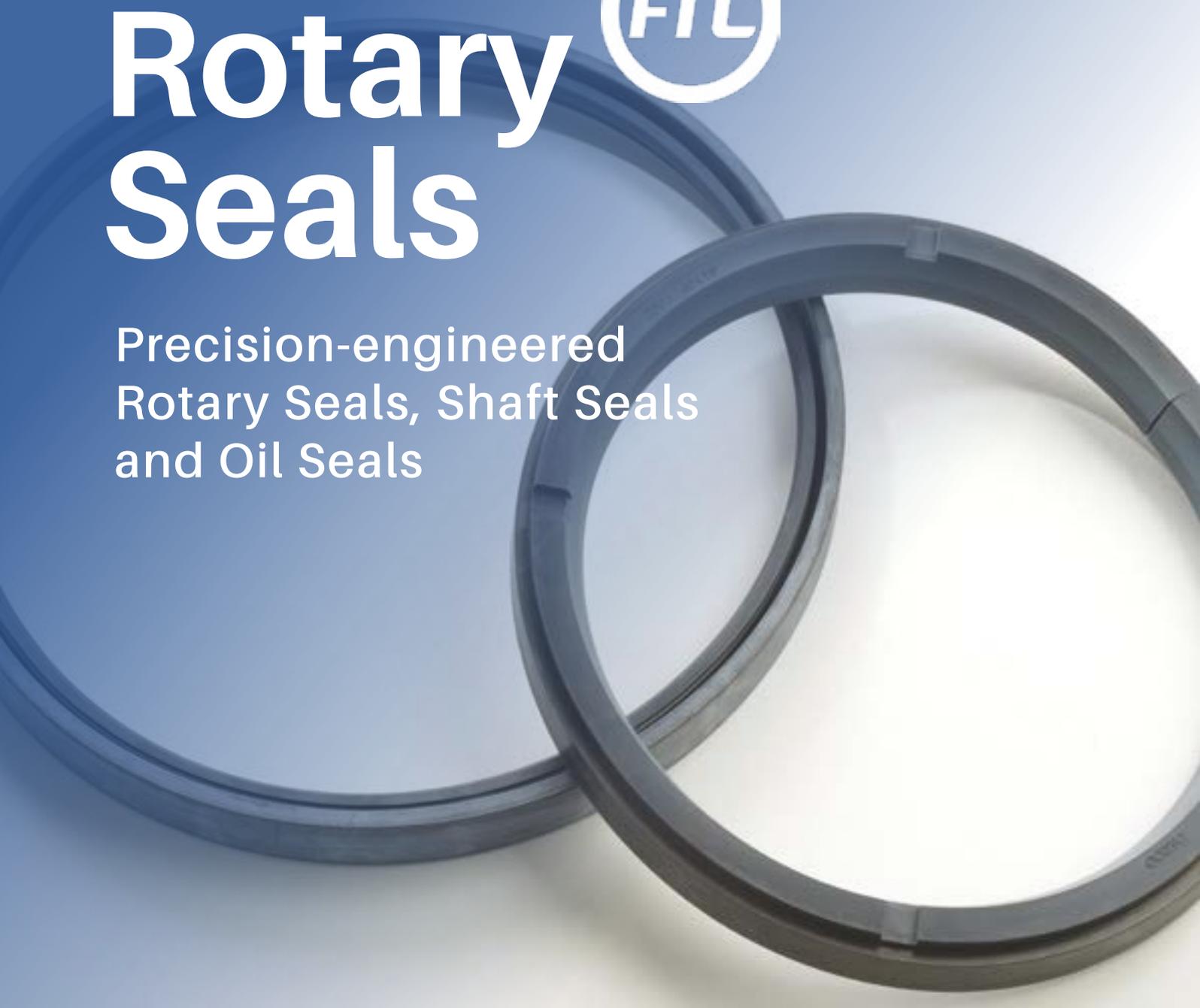


Rotary Seals



Precision-engineered
Rotary Seals, Shaft Seals
and Oil Seals





In-depth Knowledge 

Introduction



FTL Technology services industries across the globe with precision engineered rotary seals which deliver on all the key elements — protecting your bearings, eliminating contaminants, retaining lubrication and reducing the leakage of fluid media.

Rotary seals play a critical role in a wide range of heavy duty industrial applications.

Engineered for performance in the most demanding environments

Important factors to consider when choosing a rotary seal include frictional heat buildup, material stretch, compression, operational temperature limits, shaft and glandular machining.

Our experts have a wealth of experience maintaining rotating seal systems in peak condition, extending component life and improving operational performance.

Eliminating...

- Leakage and contamination of bearing lubricant
- Need for shaft removals, for faster and easier fitting

Improving...

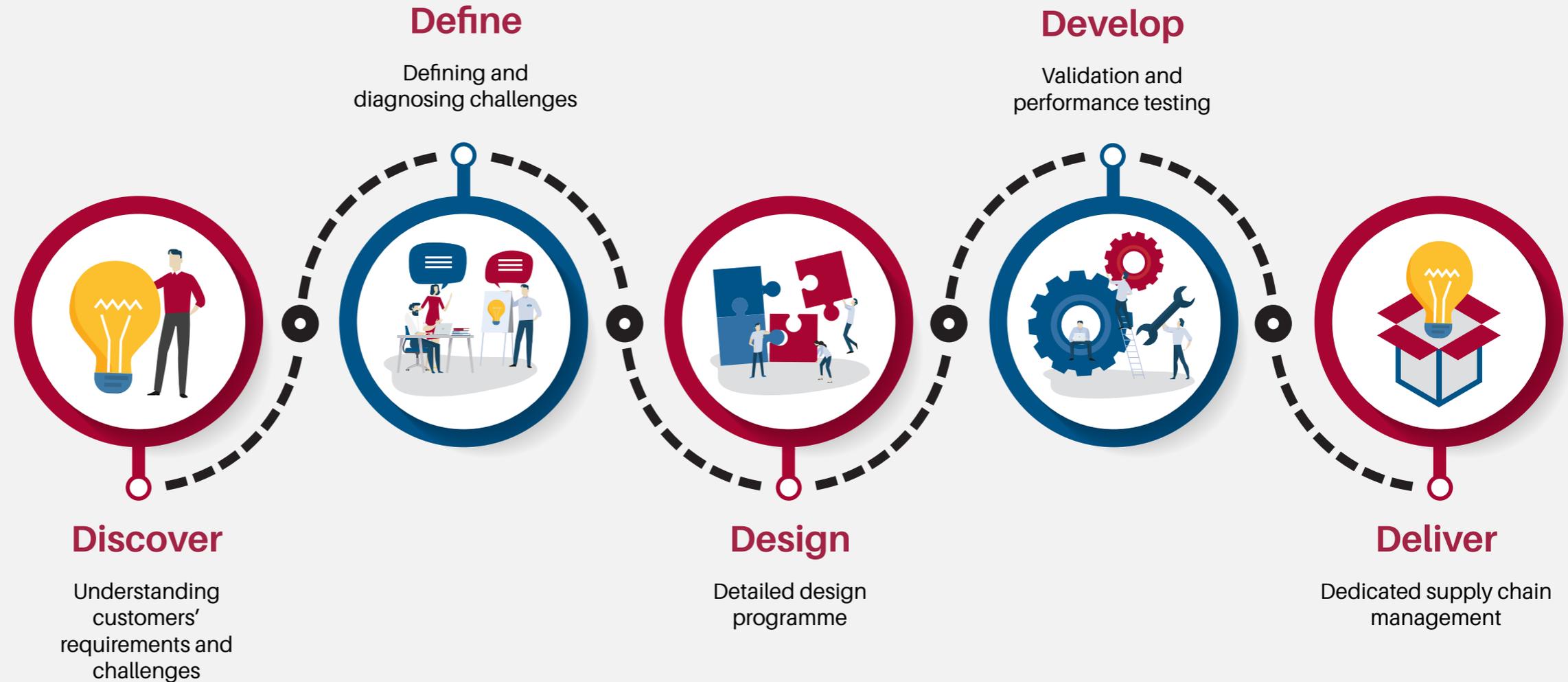
- Bearing lifetime, keeping systems running for longer
- Operational reliability, for better bottom lines and happier customers

Our Process

FTL Technology's service levels are tailored to the specific demands of your operations, ensuring that your sealing solution is right first time.

This end-to-end process identifies all the fine points which turn excellent sealing solutions into optimal sealing solutions.

From specification through to training, we will work collaboratively to solve all your problems, keeping your seals working better for longer.



Why FTL?

Product Quality

Operators know they can trust FTL Technology to provide exceptional engineering across all sealing elements. We enjoy a proud reputation for our consistently high standards, across both initial supply and MRO.

Validation

Our in-house R&D Centre of Excellence enables the design, development and validation of truly innovative rotary and reciprocating sealing systems. The peace of mind which comes with knowing a system will work right first time is indispensable to our customers.

Flexibility

Whether you need standard materials or custom seals, we can meet all your sealing requirements. We can also create uniquely tailored rotary sealing kits for any application in any industry.

Support

From the first call, our team of specialists will work closely with you to identify your needs, before selecting the resources needed for the perfect outcome. Our brand of personal service has made all the difference for our repeat customers.

Benefits

- ✓ End-to-end consultancy with time-served experts
- ✓ Our custom seals meet any requirement and are certified to ISO 9001
- ✓ Exceptional range of seal materials, with a grade to meet the demands of any operational environment
- ✓ World class MRO, for quick repair and replacement
- ✓ Global distribution partnerships, allowing us to supply around the world, around the clock
- ✓ With access to one of the largest rubber seal presses in the world, we can supply seals up to 2.5m diameter



Seal Profiles



Rotary Shaft Seals

Rotary (or radial) shaft seals, including lip seals and oil seals, are required to provide reliable sealing performance across a wide range of high speed rotating applications.

- High performance sealing from -60°C to +200°C
- Outstanding chemical resistance
- Well suited to high peripheral speeds
- Exceptional wear resistance
- Works well in low or unlubricated conditions
- Anti-adhesive lip behaviour, with no stick slipping after long equipment downtime

PTFE Shaft Seals

PTFE shaft seals are the perfect choice when it comes to sealing particularly challenging applications, with over 500 PTFE compounds to choose from and a unique manufacturing process.

- **Outstanding chemical resistance**
- **Broad temperature range (-60°C to +200°C)**
- **Suitable for low lube and dry running conditions**
- **High wear resistance of seal lip**
- **Special designs for low power losses**
- **Suitable for high peripheral speeds**
- **Low stick slip**
- **FDA approval available**

Cassette Seals

Cassette seals deliver both excellent sealing efficiency of the lubrication media, and maximum protection of the system from external contaminants. They are commonly used in wheel end applications axle shafts and track rollers.

All cassette seals are designed with an integrated wear sleeve incorporating a rubber-coated inside diameter, creating an ideal dynamic running surface.

- Reliable and efficient sealing
- High level of protection against external contaminants
- Compact design
- Easy to install

Mechanical Face Seals

Mechanical face seals are designed to operate in environments where there is a high level of external contamination from mud, sand, dirt or water.

The seal rings are statically sealed and have their face load generated by two toric O-ring seals, with available elastomers in a range of NBR, HNBR, VMQ and FPM materials and hardnesses.

- High reliability
- Cost-effective sealing against external and internal media
- Long service life with no maintenance required
- Easy assembly
- Self-centering, compensating for shaft misalignment and eccentricity



In-depth 
Solutions

Common Applications

- Oil and Gas
- Wind Power
- Hydropower
- Positive Displacement Pumps
- Shipbuilding
- Mining
- Tunnelling
- Dredging
- Steel and Aluminium
- Paper and Wood





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