

Mechanical Face Seals

In-depth sealing solutions





In-depth 
Knowledge

Introduction



FTL is a specialist provider of innovative high performance sealing solutions. Mechanical face seals are a key part of our sealing product portfolio.

Mechanical face seals need to perform in some of the harshest operating environments in the world, including heavy agriculture and mining. Our products are engineered to provide durable sealing solutions for these critical applications, keeping vehicles and machinery performing reliably and ensuring maximum productivity for your operations.

From concept to design and finished solutions, we are your engineering partner.

Why choose FTL?

FTL has worked closely with military OEM's, heavy equipment OEM's and equipment operators for many years. We understand the importance of finding a sealing solution which ensures a reliable and long service life, keeping your critical operations running smoothly with minimal disruption.

Our seals deliver outstanding sealing performance while resisting the impact of external contamination. With specialist engineering and optimal material choice, our seals combine wear and corrosion resistance with exceptional thermal endurance and chemical compatibility. It means mechanical face seal solutions from FTL routinely outperform and outlast alternative seal systems.

Our Process

FTL partner with you from initial concept to commercial reality.

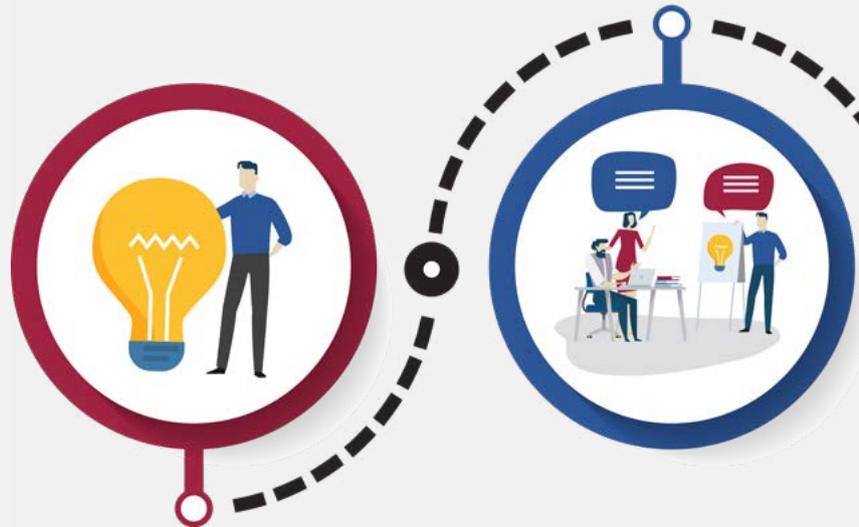
We provide a collaborative consultancy service for any sealing requirement, from a single custom seal component to a complete complex sealing system.

Our business model is designed to meet fast-changing customer needs, working with customers to identify opportunities for improvements in formulations, production processes and operation infrastructure.

We draw upon a breadth of industry knowledge to provide dynamic and effective sealing solutions, that deliver revenue and results for customers across the globe.

Define

Defining and diagnosing challenges

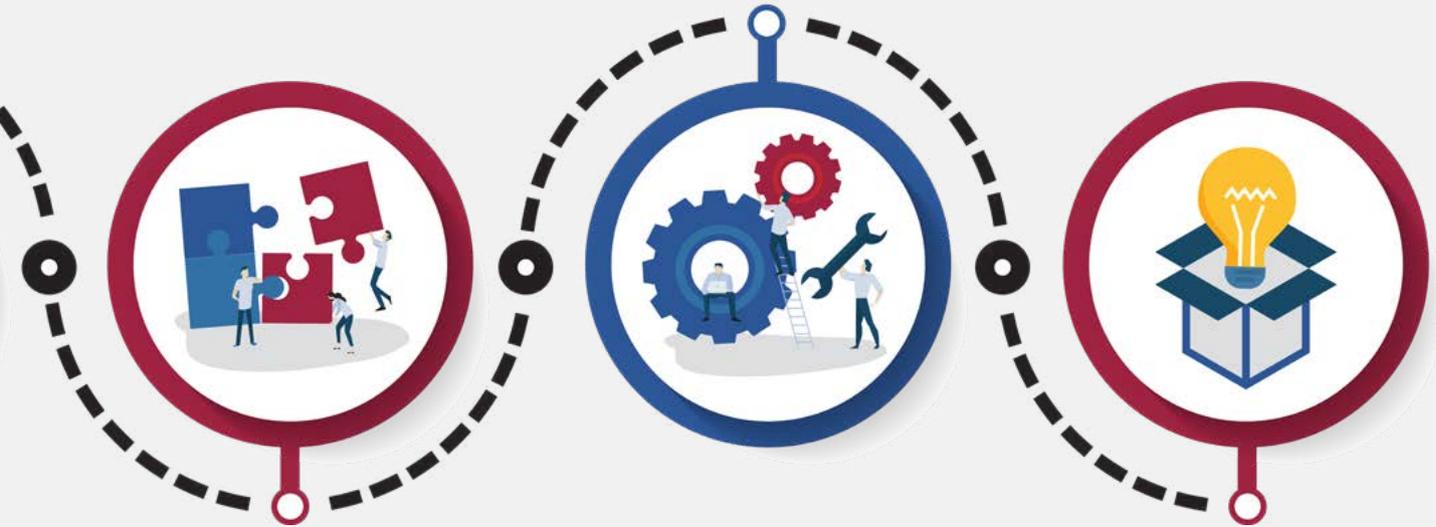


Discover

Understanding customers' requirements and challenges

Develop

Validation and performance testing



Design

Detailed design programme

Deliver

Dedicated supply chain management

[Click here to find out more](#)



In-depth
Quality



Why Choose FTL

Product Quality

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

Flexibility

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

Knowledge

An in-depth understanding of mechanical face seal applications and their key design requirements, means that FTL can deliver the service levels, reliability and functionality that the industry and our customers demand.

Support

We provide an end-to-end service from consultancy to installation, working closely with you to identify your needs before selecting the materials needed for your perfect seal. Our brand of personal service has made all the difference for our repeat customers.

Applications



Mining, military
and agriculture
suspension arms and
tension sprockets



Oil cooled disc brakes



Track Rollers
Bulldozers & excavators



Coal shearers
Armoured face conveyors
Tunnelling Machines

Goetze Products



76.90H/76.97H

The most common design types, consisting of two identical seals rings and two O-Rings. Whilst completely interchangeable, 76.97H has an as-cast profile.

76.95

Comprises two identical angular seal rings with Trapezoidal elastomer elements. Simple installation combined with reduced axial space claim.

76.95H

As per 96.95 seal but with seal ring and elastomer element anti-rotational features. Particularly suited to applications where mud packing occurs.

76.95HSL

The latest development of 96.95 style seals. Includes the proven anti-rotational features with additional lip to exclude

contamination ingress. Delivers high sealing integrity and extended service life.

76.93 Versions A + B

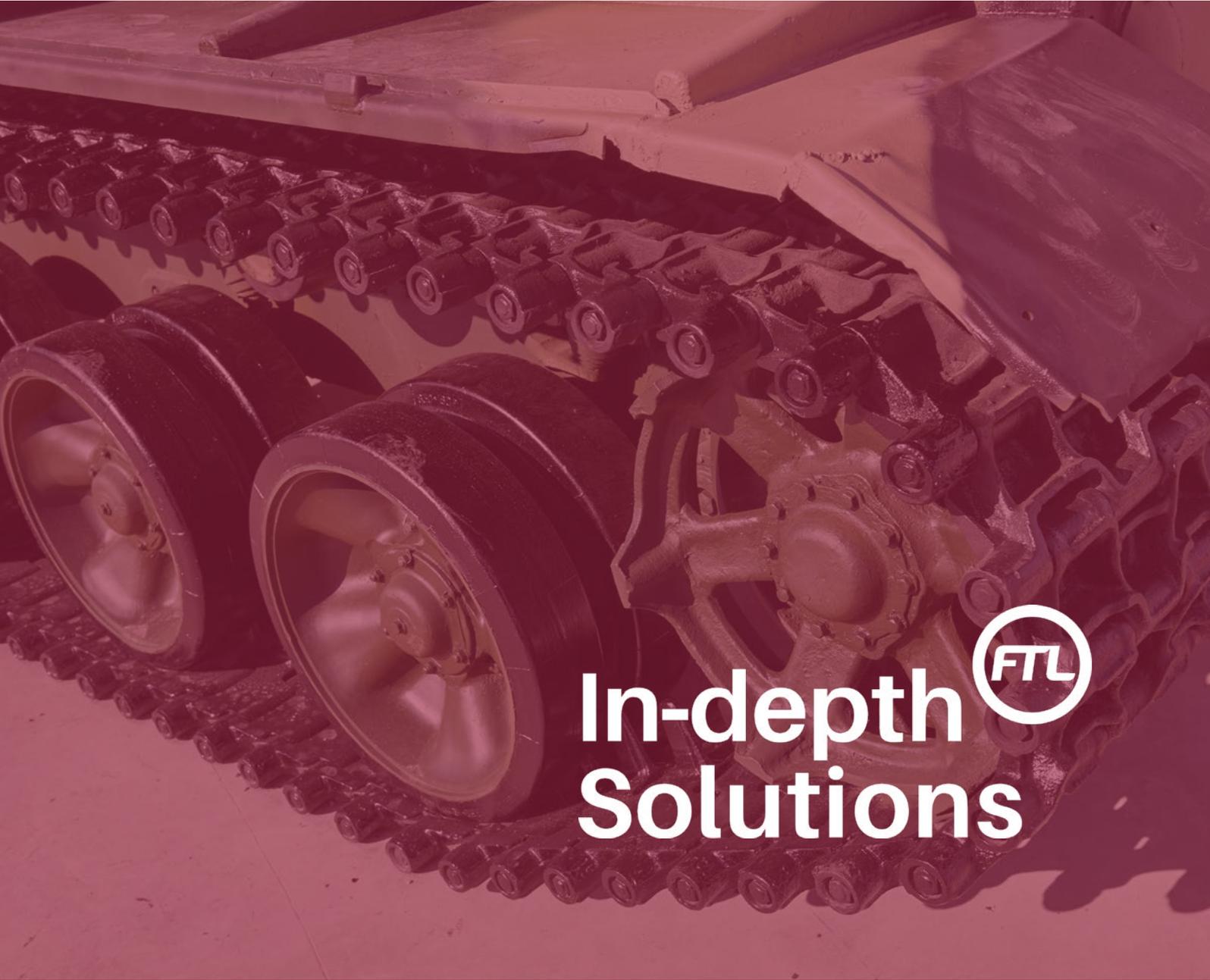
Special application and customer specific designs. Consult with us for further information.

76.91 Adaptor Rings

Combination metal and elastomer adaptor replicates the housing profile for 76.90H/76.97H seals. Simplifying machining operations and facilitating quick repair and overhaul.

FTL Specific Adaptor Rings

All metal adaptor, simplifying machining operations and facilitating quick repair and overhaul across the full range of 76.90H/76.97H seals. Special features to limit contamination ingress and mud packing etc. can be introduced.



In-depth Solutions





Benefits:

- ✓ End-to-end consultancy with time-served experts
- ✓ Our custom seals meet any requirement and certified to ISO 9001
- ✓ Our materials provide extraordinary wear-resistant seal solutions for a range of critical applications
- ✓ Expert guidance on lubrication and maintenance for mechanical face seals, for peak performance
- ✓ Specialist tooling designed to ease installation

Advantages of using FTL mechanical face seals:

Eliminate...

- Impact of abrasive media on static or dynamic applications, covering dust, sand, mud, stones and earth

Reduce...

- Operational downtime, for greater business efficiency
- Maintenance costs, improving your bottom line significantly

Improve...

- Service life of heavy duty equipment and machinery
- Operational performance, making your customers happier

Research & Development Centre of Excellence

The FTL research and development centre of excellence comprises both rotary and reciprocating bespoke equipment to support the development and validation of our innovative sealing solutions.

This unique facility allows us to simulate operational application parameters. Such as running speeds, media, temperature, surface finish and replicating external conditions, to deliver relevant test results.

We provide a comprehensive consultancy service combined with component design and development. This is supported with state-of-the-art measurement and inspection technology, which combined with our R&D centre of excellence enables FTL to support the next generation sealing challenges.



The advantages of utilising FTL's test facility include:



Your engineering partner for trusted and innovative sealing solutions



Optimised product reliability through bespoke test programmes



Next generation product development supported by in-house design, testing and validation



Integral adaptor housing technology to facilitate ease of installation



Media compatibility recommendations for industry applications



Appropriate surface finish/texture tailored to the application

[Click here to find out more](#)



W: ftl.technology

E: sales@ftl.technology

T: 0113 252 1061

