



Oil & Gas



TFC Brings it together

For over 50 years TFC has been supplying a wide ranging industrial customer base with technical fastening solutions that enable designers and buyers to improve their product range and generate more profits for their companies.

As a result, we have become one of the leading fastener distribution businesses in Europe supplying over 3,000 companies and employing over 120 people. Working throughout a national and European network of logistic service centres, TFC are able to offer a truly local level of support to customers in their manufacturing plants anywhere in the world.



Quality Assurance

At TFC we realise that Quality runs through the entire business, not just our products. We have continually invested in the right people to provide superior market knowledge and customer service.



Our supply chain partners, from manufacturers to logistics and information technology are carefully chosen to fit our commitment to quality.

Quality assured since 1981
ISO 9001:2008
Aerospace AS9100c & AS9120a

Full inward and outbound inspection process with dedicated QA/QC personnel at each location.

Laboratory test facilities are also available including PMI and Shadow Graph.

All products are batch traceable and can be supplied in accordance with REACH, RoHs and Weee.

Products & Services

With years of experience supplying the major Oil and Gas companies across the globe, our services are tailored to satisfy unique customer requirements and, as a result, our product range and logistic services are very comprehensive. We do not limit ourselves to specific ranges of parts or suppliers, sourcing products manufactured to the best quality to guarantee reliable performance in the most severe environments and rigorous applications.

All our products can be supported with either ISO, DIN, BS Standards or individual OEM approvals with lot traceability, material certification, and inspection reports as required.

- Threaded Fasteners - in a range of materials including exotic alloys and titanium.
- High Tensile Bolting Products
- Locking Washers
- Springs - Helical coil springs, volute, disc and wave type springs available with design support.
- Circlips, Retaining Rings & Snap Rings
- PEEK Machined Components
- Seals & O-rings
- Sheet Metal Fasteners
- PPE & Consumables
- Stock Management - order scheduling & long term supply agreements.
- Direct Line Feed, Kanban, VMI
- Industrial Vending Solutions



PARTNERS IN EXCELLENCE

Smalley and TFC have built a reputation for unsurpassed quality and an expert, collaborative engineering team. There is no comparison, with the decades of industry experience offered by TFC, the leading European supplier of Smalley Spirolox® Retaining Rings, Snap Rings and Wave Springs.

Unrivalled in Design, Delivery, Quality and Performance

TFC & Smalley offer a partnership you can trust to provide a reliable solution for your safety critical applications.

WAVE SPRINGS



- Reduction of spring height by 50% over ordinary coil springs.
- Equal force and deflection as ordinary coil springs
- Increased load in existing cavity.
- Sizes from 4mm (.165") to 3m (120").
- Exotic Alloys available for harsh environments.



MATERIALS

Standard material sizes are stocked for production, with delivery in as little as 2 weeks. For extreme conditions with high temperatures and corrosive environments, Smalley can manufacture retaining rings and wave springs in a variety of materials including NACE compliant specifications, Inconel and Elgiloy with stock materials to nearly any diameter or specification.

ENGINEERING SUPPORT

TFC's team of engineers have worked with industry designers to assist with oil and gas specific retaining ring and wave spring designs. They are available for design consultations, providing a full range of resources to ensure the application contains the most effective solution.

RETAINING RINGS



- No Lugs to Interfere with mating assembly components
- Easy to assemble and remove with no special tools
- Interchangeable with standard circlip grooves
- Over 6,000 standard parts available in carbon, 302 & 316 stainless steel

HEAVY DUTY SPRINGS FOR EXTREME CONDITIONS

Smalley's Nested and Interlaced Wave Springs are ideal solutions when precise high loads and deflection are required in tight spaces. They offer many advantages over heavy duty coil springs or disc springs.

POPULAR APPLICATIONS

There are a wide variety of engineering projects within the Oil & Gas Sector that benefit from the use of Smalley Wave Springs or Retaining Rings.

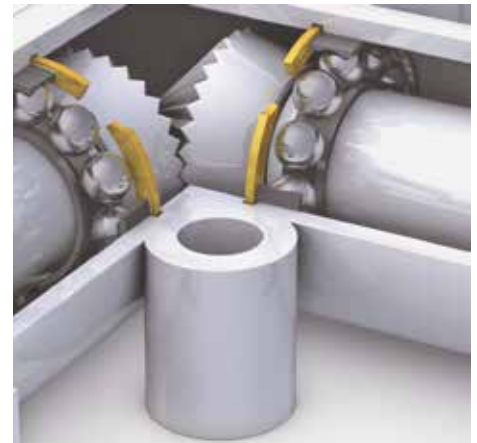
Ball Valves
Packing Preload
Ball and Taper Tools
Delivery Tools

Gate Valves
Blowout Preventer
Coiled Tubing
Well Abandonment Tools

Butterfly Valves
Christmas Tree
Electronic Chassis Tools
Scintillation Crystal Detectors



SNAP RINGS



- Specified for heavy-duty and impact loading applications
- Large variety of end configurations to meet application requirements
- Interchangeable with Eaton style rings
- Over 1,000 standard parts in stock



PARTNERS IN EXCELLENCE

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