

Advanced composites for oil and gas

**SOLVING OIL AND GAS APPLICATION NEEDS WITH HIGH-PERFORMANCE
STRUCTURES FOR EXTREME ENVIRONMENTS**



Trelleborg Sealing Solutions designs and manufactures engineered thermoplastic composite components for demanding oil and gas applications. Our high-performance materials and automated manufacturing processes enable us to develop structures for critical downhole, subsea and rotating equipment applications that match our customers exact requirements.

Our engineering and technical sales teams work with customers to develop application-specific solutions from prototype through production. Controlled automated processes support repeatable mechanical performance.

Compared with many metals, plastics and thermoset composites, engineered thermoplastic composites can offer high strength-to-weight performance, fatigue and corrosion resistance, and design flexibility.

Why partner with Trelleborg for advanced composites?

 MATERIALS & STRUCTURES	 ENGINEERING & CO-DEVELOPMENT	 PRODUCTS & APPLICATIONS	 PERFORMANCE BENEFITS
• Custom composite structures designed around application requirements • Continuous-fiber reinforced thermoplastic composites, including: • S2 glass/polyether ether ketone (PEEK) • Carbon fiber/PEEK	• Customized composite solutions • Our engineers partner with customers to develop application-specific solutions • Support from prototype through production • Automated manufacturing using high-performance materials	• Antenna shields • Structural isolators/gap subcomponents • Anti-extrusion springs and seal-support components • Composite bearings • Composite structural isolators • Composite sleeves for Measure/Logging While Drilling (MWD/LWD) tools • Permanent-magnet rotor overwinds • Custom composite structures	• Design flexibility • Electromagnetic transparency • Electrical isolation • High strength-to-weight ratio and load-carrying capability • Corrosion resistance • Fatigue and impact resistance • Wear and abrasion resistance

PRODUCTS AND APPLICATIONS



Antenna shields

S2 glass/PEEK structures for MWD/LWD and downhole telemetry applications.



Structural isolators/ gap subcomponents

Composite structures supporting electrical isolation and mechanical performance in downhole tools.



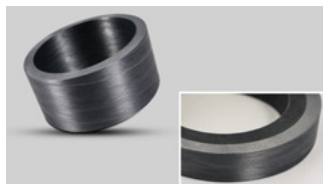
Anti-extrusion springs

Carbon fiber/PEEK components for high-pressure sealing applications.



Composite structural isolators

High-strength composite structures for demanding subsea and stress-joint applications.



HiMod® ACB/ ACB+ bearings

Bearings, bushings, wear rings and thrust washers for demanding rotating equipment.



Permanent-magnet rotor overwinds

Continuous-fiber reinforcement for high-speed rotor and generator applications.



Composite sleeves

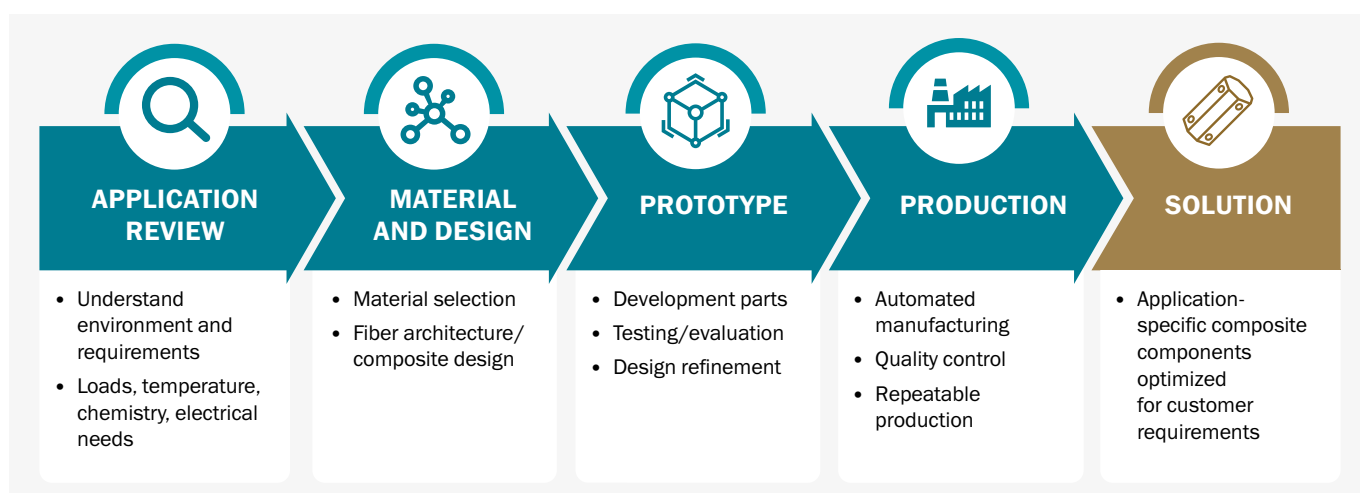
Engineered sleeves for electrical, structural and harsh-environment applications.



Custom composite structures

Thermoplastic composite components tailored to customers' application-specific requirements

FROM CONCEPT TO SOLUTION



YOUR SOLUTION STARTS HERE

Partner with Trelleborg to develop an engineered composite solution for your oil & gas application. Our team supports application review, material selection, design, prototyping and production.

www.trelleborg.com/en/seals/contact-form



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