Oil & Gas
INTEGRATING HIGH-PERFORMANCE STRUCTURES IN EXTREME ENVIRONMENTS
Empowering the world to conceptualize, manufacture and implement advanced composite solutions.

For 30 years, Automated Dynamics has provided advanced solutions to extreme applications worldwide. We manufacture advanced fiber placed composite structures and high performance composite processing equipment. Through our engineering services, automated fiber placement and tape laying processes we deliver strong, lightweight structures that solve complex problems. We excel at providing solutions to composite structure challenges that others cannot meet and we are the only company worldwide that manufactures continuous fiber thermoplastic parts in-situ! We have produced tens of thousands of composite structures and our automation equipment is in 17 countries.

OIL & GAS ASSEMBLIES & COMPONENTS

Repeatable & Reliable Manufacturing

We offer unique composite solutions for a variety of downhole, subsea, and other Oil & Gas applications. Our engineers and technical sales team work closely with customers to understand their needs and develop a joint solution, from prototyping to production manufacturing.

Our structures are manufactured with an automated, repeatable process—both essentials for our customers’ confidence in their products. With decades of engineering and manufacturing experience, we assist in selecting the right solution.

High Performance Materials

Typical structures we deliver employ continuously reinforced thermoplastic composites. Other materials and structures we use include thermoset composites, chopped fiber composites, neat resins, ceramics, integrated electronics, liners, and metallic end fittings.

Benefits of Composites in Downhole Environments

- Electromagnetic radiation transparency
- Electrical isolation
- High strength/weight ratio
- Non-corrosive
- Fatigue resistant
- High impact tolerance

Examples of Assemblies and Components

- Multi-Layered Structures
- Integrated Metal End Fittings
- Embedded Electronics
- Non-Metallic Seal Components

RESINS
- PEEK
- PPS
- BMI
- EFTE
- PA
- PEI
- PP
- PE

Call us for immediate assistance - OR - visit our website for more details and technical information!

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