

# Oil and Gas Products

## Purpose-built Composite Tooling for PDC or Conventional Drillout

- Engineered resin systems for extreme environmental or physical stresses
- High Temperature (500°F/260°C) / High Pressure (20,000psi/1,379b) capabilities
- High-volume production products
- Highly engineered, customized turnkey solutions

When safety protocols and performance standards require tools and components with non-conductive, non-magnetic characteristics, invest in PCT custom-built composites for PDC and conventional drilling applications.

### PCT Engineering

PCT polymer, mechanical and electrical engineers work with clients to develop technical specifications, to design and test prototypes and then manufacture composite-based oilfield tooling and component solutions.

PCT engineers leverage each client's insights from the field, from operating in optimal conditions to maintenance in extreme environments, with their years of experience and technical knowledge to design and build composite tooling that satisfies each client's unique strength and performance requirements.

### PCT Fabrication

For oil and gas applications, PCT material manufacturing and machining capabilities develop tools and components that can withstand temperatures as high as 500°F and pressures as high as 20,000 psi. PCT's composite fabrication capabilities accommodate both high-volume production runs and highly engineered, customized components.

PCT has decades of experience working with a variety of composite materials, including epoxy, polyester and vinyl esters and a variety of composite reinforcement fibers such as S glass and E glass, composite resin matrices, fiberglass, filament wound products and Kevlar.

Our composite manufacturing capabilities include, but are not limited to:

- Filament Winding
- Convolute Wrapping
- Autoclave Fabrication
- Compression Molding
- Vacuum Infusion
- Wet Lay-Up Process

### PCT Quality Assurance

PCT facilities are ISO-9000 registered and operate under a comprehensive quality assurance program. PCT is pursuing API Q1 certification. Every phase of design and production is subject to continuous inspection, monitoring and testing. PCT also has relationships with independent U.S. test facilities to address customer requirements for independent certification and testing.

### PCT Customer Support

PCT responds to its clients around the world 24 hours a day, seven days a week, from its design and manufacturing facilities in the United States, China and Hungary.



### Components:

- PDC and conventional bit compatible
- Wireline and Logging-While-Drilling isolation
- Battery and Electrical Isolation housings
- Antenna sections
- Sleeves – simple and load bearing
- Spacers

### Complete Assemblies:

- PDC and conventional bit compatible Frac and Bridge plugs
- Frac Balls
- Antenna subs
- Standoffs
- Cables
- Connectors

Call our Sales Engineering staff with your most demanding applications.

They love a challenge.

ISO 9001:2008

[www.pactinc.com](http://www.pactinc.com)



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