



## AEROSPACE & Defense



Boeing X-45A Unmanned Combat Aerial Vehicle

## SUPPORTING GROWTH IN MILITARY AND CIVILIAN APPLICATIONS

The development and use of composites has revolutionized the aerospace and defense industries. Composite materials provide the light weight, high performance solutions required to meet today's rigorous industry standards. ACP strives to remain at the forefront of composite technology, to be responsive to our customer's needs, and to further the use of composites in aerospace and defense applications.

ACP Composites has experience and knowledge in manufacturing a variety of composite parts and specific structures for aerospace & defense, such as:

- UAV composite structures
- Honeycomb/Carbon Fiber wingtips and bulkheads
- Satellite dish cases
- Landing gear doors and access hatches
- Composite antennas
- Composite Airfoils
- Avionics containers
- Armored personnel transport seat

**ACP is a woman-owned small business and qualifies for small business set-aside programs.**

# Innovative composite solutions

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The use of lightweight, advanced composites is essential in developing innovative, practical, and feasible solutions for aerospace and defense applications. Lightweight composites offer distinctive advantages over the use of metals. The advantages of composites over metals include:

- light weight
- low thermal expansion
- high resistance to fatigue
- excellent corrosion resistance
- low radar & microwave absorption
- higher stiffness-to-weight ratio



Project: UAV Landing Gear  
Process: Autoclave molded



Project: Strut tube  
Process: Bladder molded

As composite materials and manufacturing processes continue to evolve, the use of composites will transform how aerospace and defense industries approach new concepts.

Let ACP Composites show how composite technology can enhance your product concept. We are available to discuss requirements, provide information about manufacturing processes and inform you on what is best suited for your specific needs. Just give us a call.

### ACP Composites at a glance

Since 1985, ACP Composites has been providing innovative composite solutions to our customers.

With a wide range of application knowledge and experience in materials, fabrication methods, and systems for combining composites with other materials, ACP Composites can work with and explore many aspects of a concept in order to achieve success

We understand that every customer has unique requirements and our goal is to listen, evaluate and create products to suit those needs. We help you create what's best for you, not just what's convenient or conventional.

**We work within your design requirements,** including research and development. We embrace solving technical challenges that may arise. We can advise on material choices, fabrication processes, and attachment methods. ACP Composites understands that requirements can and will change, and when they do, ACP Composites will be there to meet those needs.

**We are committed to providing rapid turnaround** on prototype parts. ACP Composites has a proven track record of meeting deadlines and production schedules whether they are for a prototype or a multi part run.

**We are dedicated to delivering quality products** while building and maintaining lasting customer relationships. Our quality standards exceed the strictest requirements of UAV, aerospace, medical, high-technology, and semiconductor industries.



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