



Uncrewed Systems

Your Source for Innovative Composite Components for UAV and UUV Equipment

APEX Space & Defense Systems® is the leader in lightweight composite components and design solutions for the defense industry. As the largest producer of precision-engineered composite components, assemblies and solutions for uncrewed systems, we have the experience and proven manufacturing processes to support your programs for Unmanned Aerial Vehicles (UAVs) and Unmanned Underwater Vehicles (UUVs) from prototype through low-rate and high-rate production. With vertical integration across our four (4) U.S. manufacturing sites including support for classified programs, you are assured a comprehensive, one-stop manufacturing solution for your missions.

APEX has over 20 years of experience designing and manufacturing parts for the smallest Group 1 drones to the largest Group 5 vehicles, including high altitude, long endurance, solar powered aircraft.

Our product experience includes:

- Wings
- Fuselages
- Empennages
- Battery Boxes
- Nose Cones
- Payload Bays
- Camera Yokes
- ECS Ducting
- Ground Support Equipment
- Tooling and Fixtures
- Transportation Fixtures

We can provide engineering designs and composite component designs to meet your unique specifications, as well as design wing deployment systems and design and provide all the required tooling and fixturing.

Group 1

- Eagle
- Ghost
- Raven
- Switchblade 300
- Wasp

Group 2

- Lucy
- Puma
- Red Dragon
- Switchblade 600
- Vector AI

Group 3

- Roadrunner
- APID 60
- OMAN

Group 4

- SOAR

Group 5

- Sun glider
- Tern
- Global Observer
- Global Hawk



PROTECT. CONNECT. EXPLORE.



What sets APEX apart is our long heritage supporting uncrewed systems. We are the largest U.S. supplier of composite components for uncrewed aircraft.



OUR EXPERIENCE IS VAST AND BEST IN INDUSTRY.

MANUFACTURING METHODS

Pre-Preg, Wet Layup & Filament Winding
Composites, Injection Molding, Additive
Manufacturing, Assembly, Machining, Welding,
IRAD focus on new materials and cure processes

VEHICLE TYPES

Fixed Wing, Rotorcraft, Quad Copters, Marine

LAUNCH TYPES

CTOL, VTOL, STOL, Launch Tubes, Rocket Assisted
Takeoff, and Rail, Hand, Bungee & Truck Launches

MISSION PROFILES

ISR, Loitering Munitions, Communications,
Supplies Delivery, Munition, Electronic Warfare,
Mapping/Scanning, Expeditionary

SUBSYSTEMS

Fuselages, Wings, Tails, Fairings,
Control Surfaces, Payloads

ENGINEERING

Design, Structural Analysis, Prototype, Testing,
Requirements Development, Materials and Cure
Process Development

SUPPORT EQUIPMENT

Shipping Containers, Ground Control Stations,
Fueling & Maintenance Stations, Battery
Charging, Tool Kits, Spares Storage

About APEX

APEX delivers world-class solutions for the space, defense and mission-critical infrastructure industries. We excel at composite and lightweight material manufacturing from design through full-rate production. Our innovation, quality, integrity and partnership drive the products that protect our nation, connect our world and explore our universe.

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