



ADVANCED COMPOSITE PRODUCTS & TECHNOLOGY, INC.

Advanced Composite Products & Technology, Inc. (ACPT) was formed in 1977 and has been recognized as the industry Leader and Innovator from design development to manufacturing of advanced composite applications for research, commercial, government, and private institutions.

ACPT has built its reputation on a foundation of unmatched expertise in advanced composite engineering, knowledge, and experience in the productions of successful applications specialized for Space, Aviation, Defense, Professional Motorsports, Marine, Converting, Drilling and Class 7/8 Trucking.

## AVIATION & SPACE



- Satellite Battery Containers
- Satellite Antenna Components
- Numerous Space Shuttle Parts
- Aviation Composite Reference Standards
- Reinforcing Rings
- Thin Walled Tubing for Air and Spacecraft
- Space & Launch Vehicle Structural components
- Aircraft Ducting, Components, & Drive Shafts
- Honeycomb Structures & Panels
- Hydraulic Cylinder Overwrap

## ELECTRONICS



- Communication Repeater Housings
- Computer & Peripheral Components
- Cryogenic Tubing & Tanks
- Omni Polarizers & other Radar Components
- Radomes (Submarine, Shipboard & Land based)
- Magnet Cores & Coil forms
- Directional Heat Shields
- Neck Tubes

## DEFENSE



- Driveshafts
- Launch Tubes
- Composite Tank Tracks
- Integrally EMF Shielded Components
- Optical Mounting Assemblies
- Ordnance Components
- Vehicle Parts (Space, Air, Land & Marine)
- Radar components
- Composite Grab Hooks
- Hydraulic Actuators & Reservoirs
- UAV Components

## COMMERCIAL



- Automotive & Industrial Drive Shafts
- Electric Vehicle Components
- Down Well Tubing, Drill Pipe
- High Speed Rotors
- Lightweight Industrial Rolls
- Pressure Vessels
- Undersea Geophysical
- Ultracentrifuge Bodies

## SERVICES:

- Prototype Fabrication
- Production Capability
- Manufacturing Process Development
- Advanced Composite Design
- Filament Winding
- Wet/Dry Lay-Up
- Composite Machining
- Consulting
- Testing & Quality Assurance

## FACT SHEET

- ACPT, Inc. was formed in 1977
- Headquarters: Huntington Beach, California – (30,000+ Sqft Facility)
- Secondary Operation: Schofield, Wisconsin – (45,000+ Sqft Facility)
- ACPT, Inc currently employs 70+ employees
- Classification: Small Business (S)
- Registrations: ORCA Registered
- DUNS Number: 096886957
- CAGE Code: 4U140

## NAICS CODES: (SOME NOT ALL)

- 326130 Laminated plastics plate, rod, and sheet, manufacturing
- 335991 Fibers, carbon and graphite, manufacturing
- 212339 Graphite mining and/or beneficiating
- 927110 Space Research and Technology
- 213112 Drilling Oil and Gas Wells
- 541710 Guided missile and space vehicle parts (except engines) research and development
- 336350 Drive shafts and half shafts, automotive, truck, and bus, manufacturing

## QUALITY MANAGEMENT & SAFETY CERTIFICATIONS:

- Our Quality Management System is certified to AS 9100 Rev D.

## MAJOR PARTNERSHIPS/CLIENTS:



## EQUIPMENT LIST

ACPT, Inc. utilizes a broad range of manufacturing equipment. We understand that manufacturing composites is both an art and science; this is why we closely monitor every aspect and detail of the manufacturing process to ensure only the highest quality products are delivered to our customers on time, every time.

## FILAMENT WINDING

- Computer controlled motion, fully automated, 4 axis multi-spindle, with capacity to 8" diameter and 236" L
- Computer controlled motion, 4 axis, with capacity to 132" diameter and 434" L
- Computer controlled motion, 4 axis, with capacity to 54" diameter and 230" L
- Computer controlled motion, 4 axis multi-spindle with capacity to 40" diameter and 260" L
- Computer controlled motion, 4 axis, with capacity to 34" diameter and 168" L
- Several computer controlled calibrated fiber tensioners

## LAMINATION

- Climate Controlled Clean Room
- Remote Centralized Vacuum and Pressure Systems
- Vacuum Mixer
- Bladder and Trapped Molding equipment
- Finishing Area & Paint Booth

## MACHINE SHOP

- Eleven Lathes Up to 31" swing, 44" in gap, 28' between centers
- Centerless Sanders
- Four Milling Machines
- Grinders, Drills and Saws
- CNC Routers & Mills

## CURING

- Several Air Circulating Ovens of various sizes up to 36' deep x 8' high x 6' wide with calibrated chart recorders
- Multiple Autoclaves with calibrated chart recorder for heat, vacuum and pressure
- Hydraulic Presses (laminating & compression molding)
- Vacuum Ovens

## QUALITY CONTROL

- Inspection Department
- Calibrated Surface Plates
- Calibrated testing equipment for tensile, fatigue, torque & shear
- Calibrated digital inspection roaming arms

## MISCELLANEOUS

- Walk in Freezer for Prepreg and Adhesive Storage
- Wallace two ton over head crane
- Hydraulic Mandrel Pullers
- Aerospace qualified tooling and material storage
- Measuring and Recording Devices  
(all calibrated per MIL-STD-45662)

## DESIGN SERVICES

- CAD system is based on Solid Works 3D modeling software
- Advanced Composite Design and Analysis through F E.A.
- Manufacturing/Design Coordination
- Manufacturing Troubleshooting
- Process Development, Plant Layout and Equipment