

Pacific Aerospace Corp (PAC) is an aerospace manufacturer that demonstrates multidisciplinary competencies in large 5-axis CNC precision machining and advanced composite manufacturing delivering high quality precision tooling, parts & assemblies.

PAC, bearing over 30 years in machining and composite experience, established a 25,000 sf facility in the middle of Southern California. PAC has been dedicated to building an infrastructure tailored for today's manufacturing needs in the aerospace industry. PAC has discovered the need for a responsive and dedicated supplier for the rise of today's UAV and Launch Vehicle markets. Having the integration of precision machining & advanced composite manufacturing helps minimize lead times, reduce risks, and enhance quality for its customers.

## Aerospace Industry

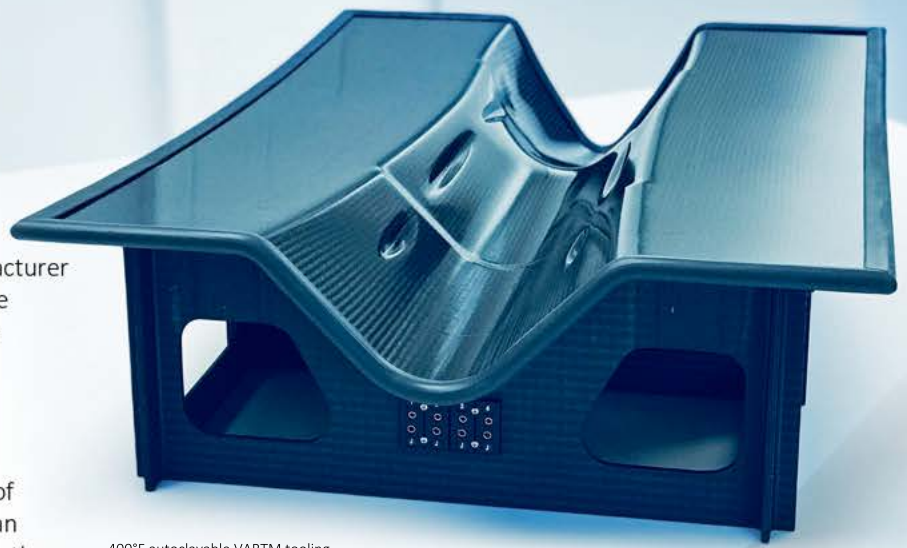
- › Unmanned Systems
- › Commercial Aircraft
- › Military Aircraft
- › Launch Vehicles
- › VTOL Aircrafts
- › Communications

PAC offers ample amounts of layup and assembly rooms that can translate into specific work cell areas.

- › 3,000 sf of lamination rooms
- › 4,000 sf of assembly area
- › Trimming stations
- › Large temperature-controlled coatings booth
- › 6' x 8' curing oven 500°F
- › 12' x 36' curing oven 400°F
- › Ø7' x 20' Autoclave 350°F



VARTM tooling with autoclaved rocket nosecone fairing



400°F autoclavable VARTM tooling

## Advanced Composites

- › R&D and product development
- › First article through production
- › Composite tooling fabrication
- › VARTM process
- › Pre-preg layup
- › Autoclave & OAC processing
- › Composite structure bonding & assembly
- › 5-axis CNC composite trimming & drilling

## Composite Tooling

PAC manufactures superior composite tooling offering many material and processing options to meet the schedules, budgets, and performance needs of their customers.

The VARTM process is a very unique process achieving phenomenal results while being comparable to autoclave tooling. This process results in lower-cost masters, no autoclave costs, and eliminates the long lead times of sourced pre-preg tooling material. PAC only selects the highest quality industry standard materials and consumables for all of the steps in composite manufacturing.



Zimmermann FZ30 Machining Center

## Large Machining Capacity

Housing four 5-axis CNC routers and one large 5-axis CNC gantry machine center gives PAC the capacity to run jobs in parallel narrowing down lead times. Supplying precision machined parts, fixtures, tooling, & composite trimming within a max envelope of 20' x 10' x 5' z-axis.

## 5-Axis CNC Precision Machining

- › Part manufacturing
- › Tooling
- › Trim, drill & vacuum fixtures
- › Composite part trimming & drilling
- › Materials: low density foams, epoxy tooling boards, high density urethanes, aluminum, steel, Invar & other alloys
- › Core material machining and kitting for Nomex & aluminum honeycomb, foam & others



## In-house CNC machine list

- › Zimmermann 5-axis machine center 248"Y 132"X 59"Z
- › Anderson 5-axis router 144"Y 68"X 47"Z
- › Anderson 5-axis router 144"Y 68"X 32"Z
- › Anderson 5-axis router 86"Y 86"X 32"Z
- › Anderson 5-axis router 108"Y 56"X 32"Z

## Supporting

- › TIG/ MIG welding systems
- › Metal fabrication shop
- › Manual mill & lathe

*Pacific Aerospace Corp is built upon a team of highly skilled engineers and technicians that have years of experience in aerospace precision machining and advanced composite manufacturing. Being veterans of their trade, PAC's team is dedicated to meeting your design requirements and specifications and exceeding your expectations by our high level of craftsmanship and exceptional customer service.*

- Founder and CEO, **MARK FERRARA**

## Quality Inspection and Reverse Engineering

PAC demonstrating its inspection capability with Hexagon's Romer Absolute Arm being used as a hard probe and 3D scanner to collect points and surface data. This helps support our customers by providing detailed inspection plans or reverse engineering for prototyping components in assemblies or interfaces.



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