



Facility Factsheet

Aerospace Structures Test Complex Fabrication and Prototyping Lab

Purpose: The Fabrication and Prototyping Lab for composite structures provides a wide variety of fabrication capabilities critical to enabling hands-on research and development for innovative structural technologies.

Capabilities: The Fabrication and Prototyping Lab has capabilities that include:

- Autoclave laminate processing at 220 psig at 350°F typical
- Numerical Controlled Gerber automated ply-cutting
- Pre-preg lay-up
- Direct write system for depositing/integrating electronics in structures
- Vacuum assisted resin transfer molding
- Resin infusion / hot de-bulking
- Electroforming, electroplating, and brush plating / metallic vapor deposition
- Microwave resin digestion
- Laser cutting and engraving
- Fiber volume measurement
- Photo micrograph specimen preparation
- Machine shop with CNC mills, lathe and electrical discharge machining (EDM)
- Mini bench-top mills

Contact: The Structural Validation Branch at 937-656-8827

