

PREPARING FOR THE FUTURE

CPC collaborates with local colleges and universities in developing multilevel certificate and degree programs consisting of advanced composite technologies for post-secondary and undergraduate students.



CPC's training classroom is equipped with:

- Dell Workstations equipped with:
 - CATIA v5 CAD/CAM with composite module
 - Siemens CAD/CAM (Nastran (FEA)/ANASYS)
 - Fibersim Composite Design
 - Pro-E Wildfire
 - SolidWorks s/w
- Video conferencing & webinars
- Mfg. process equipment networked to enable easy up/downloading of programs and of line programming.

Education curriculum and certificate programs:

- Composite design training courses
- Composite technician certification program

STEM Education

The STEM High School Composite Technology Program provides an introduction to composite technology designed to give high school students an appreciation for the field of composite design, engineering and manufacturing.



CPC's 25,000 ft² facility is strategically located in Plainview, NY, in close proximity to Long Island's major thoroughfares.



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Your Future In Composite Manufacturing Starts Here

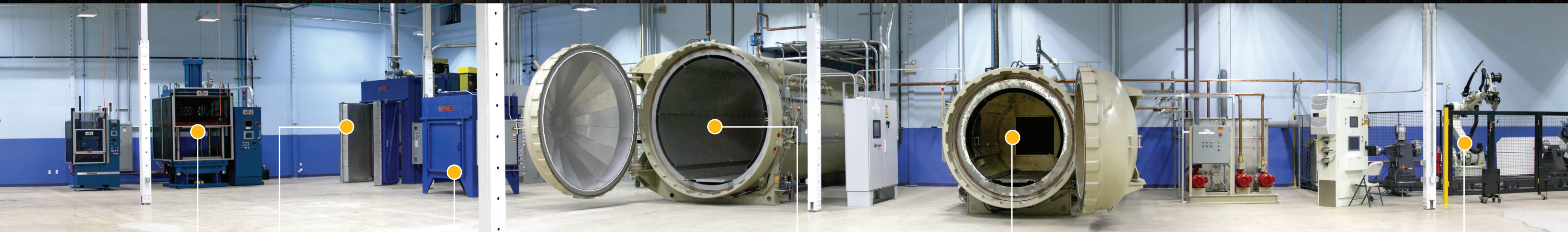
DESIGN ■ PROTOTYPE ■ TEST ■ TRAIN



INSPIRING INNOVATION ■ REALIZING YOUR VISIONS

WWW.COMPOSITEPRO.ORG

EVERYTHING YOU NEED TO DESIGN, TEST, PROTOTYPE AND TRAIN



INSIDE OUR WORLD-CLASS, 25,000 FT² MANUFACTURING AND TESTING FACILITY:

Compression Molding Heated Presses (Wabash)

- 250 ton, 800°F, Heated Platen 48" x 48", 36" stroke
- 100 ton, 800°F, Heated Platen 18" x 18", 36" stroke

Walk-In Oven (Wisconsin)

- 6'w x 12'l x 8'h
- @ 800°F

Coupon Oven (Wisconsin)

- 4' x 4'
- @ 1,000°F

Autoclave (Bondtech)

- 8' dia. x 20' long
- 165 psi & 450°F
- 12 vacuum lines
- 24 TCs
- N₂ atmosphere

Autoclave (Bondtech)

- 5' dia. x 8' long
- 300 psi & 800°F
- 6 vacuum lines
- 10 TCs
- N₂ atmosphere

Automated Fiber Placement Machine (Automated Dynamics)

- Manufacture parts up to 90" long by 48" cross section/diameter
- Thermo-set head, 4 - 1/4" tows
- Thermo-plastic head, 1 - 0.25"/0.50" tape, laser in-situ consolidation
- Flat panel capable (48" x 96")

LEADING EDGE TECHNOLOGY

The demand for products utilizing composite materials such as carbon fiber, fiberglass and aramid is growing exponentially. Competing in today's brave new world of Advanced Composite Manufacturing requires vision and expertise as well as a trained workforce. And no center or resource assists in the reengineering of present-day manufacturing methodologies to secure the future more than CPC, the Composite Prototyping Center in Plainview, New York.

Our mission is to enable all organizations to meet the needs of advanced composite manufacturing by providing access to essential training, workforce development, process technologies, prototype manufacturing and testing capabilities.

We offer:

- Full prototype manufacturing
- Hands-on technical training from leading professional materials manufacturing experts
- Workforce development protocols and training
- Fully equipped production line featuring advanced state-of-the-art systems and equipment
- Education and implementation of the latest technologies
- Critical testing capabilities
- R&D support and new composite material evaluation
- Design optimization

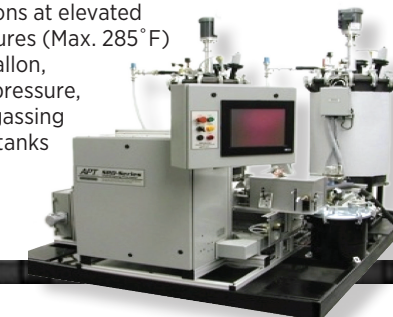


Filament Winding System

- Pre-preg and wet processes
- Fabricate parts 8 meters long, 5' dia. parts

RTM/VARTM Resin Injection/Infusion System (APT)

- Equipped to process two component epoxy composite formulations at elevated temperatures (Max. 285°F)
- Two 10-gallon, vacuum/pressure, batch degassing and feed tanks



CLEAN ROOM Single Ply Auto Cutter/ (Gerber/Virtek) Laser Projection System

- 1,200 ft², Class 100,000
- Hand layout & vacuum bagging tables
- Laser projection system aids in the following operations:
 - Nesting, picking, kitting and lay up of plies



Thermwood Model 77 CNC 5-Axis Machining Center

- 12 HP HSD Tool Change (3,000-24,000 RPM)
- 60" x 120" Table with 36" Z-Axis
- Impact Resistant 5 Axis Head
- 10 Position Rotary Tool Change System
- Rapid Speed: 3500 inches per minute

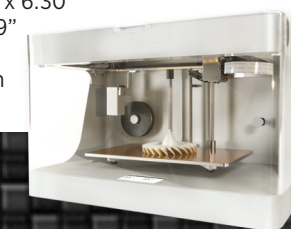


3D Printing System (Stratasys)

- Rapid prototyping
- Tool manufacturing direct from CAD files
- Fast turnaround samples
- Uses ABS-ESD7, ULTEM 9085, PC-ABS, PC-Model with SR-100 soluble support material, PPSF, PC-ISO, ABS-M30i, ABSi, Nylon 12

Markforged Mark-One Composite 3D Printer

- Build Size: 12.60" x 5.20" x 6.30"
- Layer Resolution: 0.0039"
- Materials: Carbon Fiber, Fiberglass, Kevlar®, Nylon



TEST/INSPECTION LAB

- Universal Test Machine (Instron)
- Impact tester (Instron)
- Digital microscope
- Non-Destructive Inspection Equipment (Olympus)
- CMM (Faro Arm)
- Perimeter Bond Tester (Perimetrix)

