

## Production Equipment

ACP Composites' state-of-the-art production facility spans 33,000 square feet and features the equipment essential to an advanced composites manufacturing company. Some fundamental pieces of equipment include:

### AUTOCLAVES

#### Autoclave

5 ft. diameter x 25 ft. | 100 PSI  
350°F max. temp.

#### Autoclave

3 ft. dia. x 5 ft. | 100 PSI  
250°F max. temp.

#### Autoclave

5 ft. diameter x 12 ft. | 100 PSI  
350°F max. temp.

#### Autoclave

4 ft. dia. x 8 ft. | 100 PSI  
350°F max. temp.

### PRESSES

#### Heated Laminating Press

5 ft. x 10 ft. | 5 openings | 80 PSI  
250°F max. temp.

#### Heated Laminating Press

5 ft. x 10 ft. | 5 openings | 80 PSI  
250°F max. temp.

#### Laboratory Press

2 ft. x 4ft. | 60 PSI  
250°F max. temp.

### OVENS

#### Curing Oven

6 ft. x 8 ft. x 16 ft. | 650°F max. temp.

#### Curing Oven

2 ft. x 4 ft. x 4 ft. | 450°F max. temp.

#### Curing Oven

2 ft. x 4 ft. x 4 ft. | 400°F max. temp.

#### Curing Oven

6 ft. x 6 ft. x 8 ft. | 450°F max. temp.

#### Curing Oven

6 ft. x 8 ft. x 16 ft. | 450°F max. temp.

#### Curing Oven

2 ft. x 4 ft. x 4 ft. | 450°F max. temp.

#### Curing Oven

8 ft. x 8 ft. x 10 ft. | 500°F max. temp.

#### Curing Oven

6 ft. x 8 ft. x 9 ft. | 500°F max. temp.

#### Curing Oven

2 ft. x 2 ft. x 4 ft. | 600°F max. temp.

### LASER PROJECTION SYSTEMS

#### Virtek Laser Edge Projection Systems (4)

Position accuracy of  $\pm .015"$  | 80° field of view

### CUTTERS

#### Eastman Ply Cutter

55 in. x 20 ft. Table |  $\pm .015"$  cut accuracy  
60 in./sec. max. gantry speed

#### Heavy Duty Sheeter

60 in. max. width | Electric controls

#### SmartSlitter

Fabric Roll Slitter + Rewinder  
74 in. max. roll width | 11 in. max. roll OD

This equipment list features fundamental pieces of equipment used in composite manufacturing and is not exclusive. Please contact us with any questions or for additional information regarding ACP Composites facility, equipment or capabilities.

## Composite Machining

Our shop offers a number of composite machining options — including CNC machining centers, mills, lathes, grinders, routers and more.

### CMS Ares 5 Axis Machining Center

5-Axis | 5 ft. W x 15 ft. L x 4ft. Z  
 $\pm .003$ " accuracy  
 NEMI Vacuum Grid Table Fixturing

### Dual Head C.R. Onsrud CNC Router

3-Axis | 5 ft. W x 10 ft. L x 10 in. Z  
 $\pm .002$ " accuracy  
 NEMI Vacuum Grid Table Fixturing

### C.R. Onsrud CNC Router

3-Axis | 5 ft. W x 10 ft. L x 10 in. Z  
 $\pm .002$ " accuracy  
 NEMI Vacuum Grid Table Fixturing

### C.R. Onsrud CNC Router

4-Axis | 5 ft. W x 12 ft. L x 6 in. Z  
 $\pm .004$ " accuracy  
 NEMI Vacuum Grid Table Fixturing

## Inspection & Testing

Our quality inspection center is equipped with calibrated gauging equipment used in production and inspection.

### Virtek LaserQC Inspection System

$\pm 0.002$ " - 2D Measurements  
 $\pm 0.010$ " - Formed Structures | High-Speed  
 Laser captures 500 data points/sec

### X-Ray Inspection Cabinet

24 in. x 24 in. | Real-time imaging  
 100KW with CMP 200DR 50KV console

### Large Variety of Calibrated Measuring Devices

### ROMER Absolute Arm™

3 ft. Arm |  $\pm .001$ " accuracy  
 Hexagon Metrology Software  
 Integrated RS4 Laser Scanner

### Granite Surface Plates

## Freezer Storage

ACP Composites' temperature-sensitive materials, such as prepregs and film adhesives, are kept in our on-site freezers which are equipped with real-time digital temperature tracking recorders.

### Prepreg Freezer Storage (3)

8,000 ft<sup>3</sup> | 0°F storage | Real-time temperature tracking

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