

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

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

Coordinate Measuring Machine

24 in. x 48 in. | Z-Axis $\pm .00005$ " accuracy
 X-Axis & Y-Axis $\pm .0001$ " accuracy
 Nikon Metrology Software

X-Ray Inspection Cabinet

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

ROMER Absolute Arm™

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

Large Variety of Calibrated Measuring Devices

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 ft³ | 0°F storage | Real-time temperature tracking

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