ROUSH®

ADVANCED COMPOSITES & MODEL DEVELOPMENT

Roush Advanced Composites and Model Development group is a single source solution for product development needs. Utilizing our on-site design team, engineering support and model services, we can take a design idea and transform it into a finished product. We produce autoclaved prepreg composites, open molded epoxy laminates and vacuum formed thermoplastics, using the latest in composite material selections, experienced technical staff, and modern technologies.

www.roush.com

We're focused, we're efficient, and we're at our best when we're challenged to think outside the box — critical traits when our customers' success depends on how quickly we can take their visions from the sketchpad to the marketplace.

For more information, please click here.

ADVANCED COMPOSITES

PROCESSES

- Autoclaved Prepreg
- Composites
- Vacuum Bag Composites
- Open Molded Laminates
- Vacuum Formed Thermoplastics

MATERIALS

- Kevlar
- Carbon Fiber
- Fiberglass Fabrics
- Nomex Honeycombs
- Aluminum Honeycombs
- PVC Foam Core
- High Temp Epoxy Resins
- Polyester Resins

MODEL DEVELOPMENT

IN-HOUSE DESIGN SERVICES

- Design Studios
- Prototype Model Shop

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PROCESSES & TOOLING MATERIALS

- CNC Machining
- SLA
- SLS
- Rapid Prototype
- Hand Built Models
- Steel
- Aluminum
- Urethane Foam
- Wood
- Clay
- High Temp Epoxy

EQUIPMENT

Autoclave Curing Chamber

- Electric Heat to 400° F
- 100 PSI
- Inside Dimension 54" ID x 18' long

Curing Oven #1 Gas Fired

- Temperature up to 400 degrees
- Inside Dimension 65" tall x 73" wide x 120" deep

Curing Oven #2 Gas Fired

- Temperature up to 500 degrees
- Inside Dimension 96" tall x 126" wide x 312" deep

Automatic Textile Cutting Table with Digitizer

- 70" wide x 32' long

Thermo Vacuum Form Machine

- 54" x 108"

Multiple 5 Axis CNC Milling Machines

FINISHED PRODUCTS

- Lightweight Composite Body Panels
- Clear Carbon Components
- Interior Panels
- Composite Enclosures
- Lightweight Ducting

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