



RESIN TRANSFER MOLDING

Precision RTM Advancing Aerospace & Defense Manufacturing

At Re:Build Composite Resources, we're pushing the boundaries of composite manufacturing with our advanced Resin Transfer Molding (RTM) capabilities. Our state-of-the-art RTM work cell represents the pinnacle of thermoset composite structural component production. This cutting-edge technology complements our extensive range of composite processing methods, allowing us to offer unparalleled solutions for the most demanding aerospace and defense applications. Whether you need superior part geometry, higher fiber volumes, or increased production rates, our RTM process delivers the precision, efficiency, and reliability your projects demand. With Re:Build Composite Resources as your partner, you gain access to a comprehensive suite of composite solutions, positioning your products at the forefront of industry innovation.



Capabilities

- Heated and cooled 4 ft. x 12 ft. platens with 18-inch daylight
- Ability to split into individually controlled 4 ft. x 6 ft. zones for process and part flexibility
- ‘Industry 4.0’ data collection capabilities integrated into Re:Build’s manufacturing data analytics platform

The RTM process offers numerous benefits:

- Improved control of part geometry
- Enhanced resin distribution
- Higher fiber volumes
- Increased production rates
- Components with tighter tolerances
- Enhanced downstream assembly consistency
- Reduced scrap and rework
- Improved overall system performance

Key Differentiators

- **Cutting-edge Technology:** Investment in the latest RTM technology ensures we meet the highest performance and volume requirements for aerospace and defense customers.
- **Flexibility and Scalability:** The ability to split the work cell into individually controlled zones provides unparalleled process and part flexibility.
- **Data-Driven Manufacturing:** Integration of ‘Industry 4.0’ data collection capabilities with our manufacturing data analytics platform enables continuous process improvement and quality control.
- **Comprehensive Solutions:** The addition of RTM to our existing suite of composite processing technologies positions us as a versatile, one-stop shop for a wide range of composite needs.
- **Quality and Efficiency Focus:** RTM supports our customers’ goals relating to quality, efficiency, and reliability by producing components with tighter tolerances and reducing scrap and rework.
- **Industry Expertise:** Our in-depth understanding of the aerospace and defense industries enables us to fully leverage this new capability, delivering superior composite solutions to our customers.

INDUSTRIES SERVED:

- Aerospace & Defense
- Industrial
- Medical
- Space & Satellite
- Transportation

LOCATIONS:

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