

Hot Isostatic Resin Pressure Molding (HiRPM®)

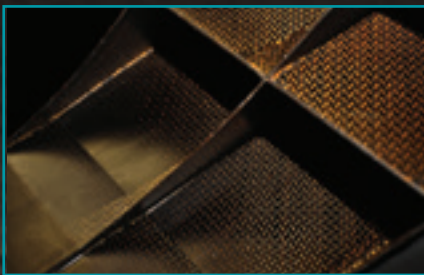
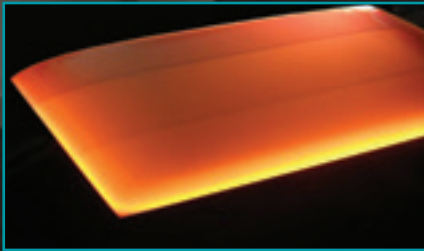
An Ultra-Precision Closed Molding Process

HiRPM® technology by Matrix Composites is breaking new ground in out-of-autoclave processes and tooling methods. Developed specifically for composite manufacturers of critical edges and control surfaces, HiRPM® exceeds the strictest dimensional requirements without expensive autoclave OML control devices. HiRPM® delivers an enabling technology for the most demanding applications.

HiRPM®



HiRPM®



Features & Benefits:

- Resolves dimensional control issues with a demonstrated part to part repeatability within .003"
- Eliminates costly shimming processes in bonded assemblies
- Closed mold process that provides precision IML and OML profile controls
- Eliminates ply consolidation (debulking) processes which reduces cost and improves rate
- Provides a robust/repeatable out of autoclave process for high volume production scenarios
- Compatible with qualified materials which omits expensive material qualification efforts
- Produces superior laminates with validated void content less than .5%

Additional Capabilities:

- Ideal process for integrating multiple parts into a single assembly
- Reduces the need for expensive post machining operations
- Customizable to a variety of reinforcement materials and resins
- Well suited to radomes, spars, control surfaces, complex geometries and critical edges

**ISO9001:2015 and AS9100D
Nadcap Accredited**



Matrix Composites
275 Barnes Boulevard
Rockledge, Florida 32955
USA
Phone: 321-633-4480
Fax: 321-633-4490
www.matrixcomp.com

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