



ISO 9001 : 2008 CERTIFIED

Most people know about injection molding, but what some don't know is that there may be a better, more cost effective option that delivers a superior product – Reaction Injection Molding (RIM). And when it comes to RIM, no one has more experience and more expertise than RIM Manufacturing.



- Custom Polyurethane Parts
- High Tolerances, Varied Wall Thickness
- Large Parts (60" x 120") or Small Parts
- Encapsulation of metal, wood, glass etc.
- Low Cost Tooling

RIGID POLYURETHANE UL 94V-0

Once you say 'Go', the experts at RIM Mfg. can go from tooling to parts in as little as 6-8 weeks – injection molding can take 6-8 months.



FLEXIBLE FOAM

If you have a large design but need it to be lightweight, that's no problem when you're working with RIM Manufacturing.



RIGID FOAM

The Experts Aren't Always The Most Expensive

When creating your Reaction Injection mold, RIM can save you up to 70% on tooling costs. Unlike Injection Molding, our process is low temperature and low pressure. This allows us to use aluminum molds instead of steel saving you tons on hard tooling costs. This also makes RIM ideal for lower production runs as well as new products trying to enter a market.

Time Is Money: RIM Manufacturing Gives You The Advantage

From the very beginning of a project, we save you time by getting you quick competitive bids in as little as 48 hours. Then, our experienced technicians can work with your designs to create molds in a fraction of the time required by traditional injection molding. And because the tooling is easier to change, you can make design changes quickly, even after a production run. In fact, RIM Manufacturing can be more than 5 times faster than injection molding.

Saving Time And Money Is Nothing If You Can't Execute On Your Design

With 30 years in the business, no one understands Reaction Injection Molding better and no one can offer you greater customization than RIM Manufacturing.

We'll work with you before hand to make sure your plans maximize the benefits of RIM. We can create extremely intricate, detailed molds that are small or large. We can create products that are small or as large as 60 by 120 inches. Products can be designed with walls of varying thickness without the ugly sink marks so common in injection molding. RIM-made products can even vary flexibility depending on the polyurethane system you choose. Products made by RIM can even feature inserts of wood, metal or glass.

Products created with RIM are better looking than thermoforming because of the amount of detail and refined edging we can provide in the tooling. And every product we make is finished as well as it began.

We in-mold paint and use experts at post part finishing so your product can be painted using perfectly matched paint colors, EMI shielded or silkscreened. Our high strength surfaces are scratch, heat and impact resistant as well as being resistant to organic and inorganic acids. RIM Manufacturing can even provide complete assembly or secondary assembly to help bring your product to life.

Who We Are

With 30 years experience, no one has greater expertise in Reaction Injection Molding and plastics manufacturing. And even though we're one of the largest RIM companies in America, we're family-owned so we understand the need to control costs, time constraints and the need for personal customer service. We're **ISO 9001-2008 Certified** and have an entire department devoted to quality management.

We're proud to have partnered with some of the biggest companies out there like Abbot Labs, Varian Medical, Baker Hughes, Peterbilt, 3M, Siemens, Toro, AMF Bowling, Ditch Witch, Diebold, Molecular Devices, Thermage and many more. But we're even more proud that they come back to us year after year. You see, we view every client as a partner. We only succeed if you and your products succeed. And equal devotion to our suppliers, ensures consistency of the products and equipment we use. And together, we can provide your company with a cost-effective means to create some of the highest quality products on the market.



So give us a call today at (817)599-6521 or e-mail Scott@rimmfg.com or Steve@rimmfg.com. Let's talk about Reaction Injection Molding and why it might be the best choice for you.

RIM offers differing polyurethane systems that provide differing amounts of flexibility and UL rating 94V-0.

Foam: Rigid or Flexible foam polyurethanes use blowing agents to form a sandwich of high-density rugged skin and a lower density cellular core.

Solid: Solid polyurethanes are processed without blowing agents to form a homogeneous flexible or rigid plastic.

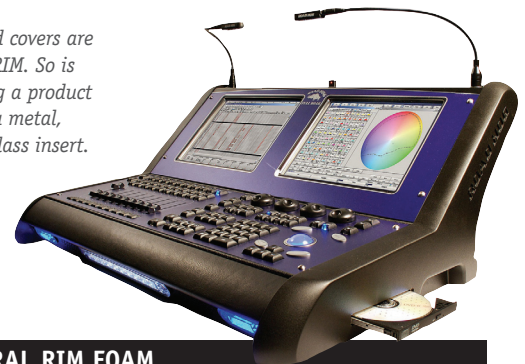
Composite: Stiffness and impact strength are enhanced by adding fiber reinforcement (glass, mica, quartz, etc.) in the material stream, (Reinforced RIM – RRIM), or by using a molded preform in the mold that is encapsulated, (Structural RIM – SRIM).



- Ideal for production runs of 100 to 5,000 pieces per year; this door for MRI Machines is over 85" tall but extremely lightweight.
- Low temperature: 95° materials, 150° for the mold
- Low pressure: 2000 PSI in mixhead during injection, 100 PSI in mold (mold and material dependent)

RIGID FOAM

Bezels and covers are ideal for RIM. So is reinforcing a product by using a metal, wood or glass insert.



STRUCTURAL RIM FOAM

The Short Version (We can even save you time with our brochure.)

- Save you up to 70% on tooling costs vs. injection molding
- More than 5 times faster than injection molding from tooling to production
- Ideal for production runs of 100-5,000 pieces per year
- Quick, competitive bids in as little as 48 hours • Quick design changes, even after a production run
- Detailed molds that can produce parts small or large, heavy or light • Varying wall thicknesses without sink marks • Varying flexibility
- Can incorporate inserts of wood, metal or glass
- Better details, refined edging, perfectly matched paint colors, EMI shielded or silkscreened
- Surfaces resistant to: scratches, heat, impact, organic and inorganic acids • Finishes available with UV-protection and fire resistance UL rating 94V-0
- Can complete assembly or secondary assembly
- Clients include: Abbot Labs, Varian Medical, Baker Hughes, Peterbilt, 3M, Siemens, Toro, AMF, Diebold, Thermage