



- Large, sculpted parts can be molded economically.
- Variable thickness walls allow for greater design freedom.
- Closed molds produce accurately molded and structurally strong parts.
- Lower tooling cost and shorter tooling lead time.
- A wide variety of material properties including UL94VO.
- Electronic components can be encapsulated.
- Metal parts can be encapsulated.

RIM parts are lower cost than the same parts made from metal or fiberglass.

Composites - RIM parts can be reinforced with many materials.

Exothermic capabilities:

- CAD Engineering Review
- Mold Design
- Mold Manufacture
- Mold Repair/ Modification
- RIM Molding
- Precision Painting
- Silk Screening
- Assembly

ISO 9002 Compliant

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RIM Chosen as the Perfect Replacement for Sheet Metals Due to Design Freedoms, Aesthetic Appeal and Improved Ergonomics

LaserStar Technologies develops equipment that offers an alternative to soldering and microplasma welding for precious metal jewelry production, fabrication and repair of dental prosthetics, and micro assembly of medical devices and electronic components. The company's laser welding workstations eliminate the need for solder by using a sharp, focused laser beam to weld together any two metal parts. When developing the new 7000 Series LaserStar Workstation, they turned to RIM Technology and **Exothermic Molding, Inc.** to provide improved economics, ergonomics and more aesthetic appeal.

Reaction Injection Molding was selected to replace sheet metal because of the design freedoms it offers and the stylish looks it is capable of producing. According to Product Designer Justin Sirotin of Item New Product Development, the **RIM** process provided an ideal platform to take the product's styling to the next level. The designers wanted a more appealing, softer appearance with curved surfaces and flowing lines that sheet metal could not achieve. The superior finishing capabilities of **Exothermic Molding** also added appeal to the work station housing. The **RIM** parts are beautifully finished in five colors, offering buyers a choice to best suit surrounding décor.

It was a functional purpose, however, that made **RIM** the ideal choice. Because of the ability to offer varied wall thickness and curved and contoured shapes, design engineers were able to significantly improve the ergonomics of the work stations. Development incorporated large ribs under the surface of such parts as the access door for reinforcement, as well as molded-in bosses and inserts for assembling the parts.

Exothermic produced four low-cost, machined, aluminum molds to produce the five parts used on the facade. The molds were produced directly from the CAD files supplied by LaserStar. The five **RIM** parts included a left cuff, a right cuff, a bezel, door assembly and a foot rest cover at the base of the workstation.



*Laser Star Technologies turned to **Exothermic Molding** and its **RIM** process when developing the 700 Series Laser Star Workstation, to create a more aesthetic appeal and improve ergonomics.*

Exothermic molding delivers large, lightweight RIM parts quickly ... at competitive prices.