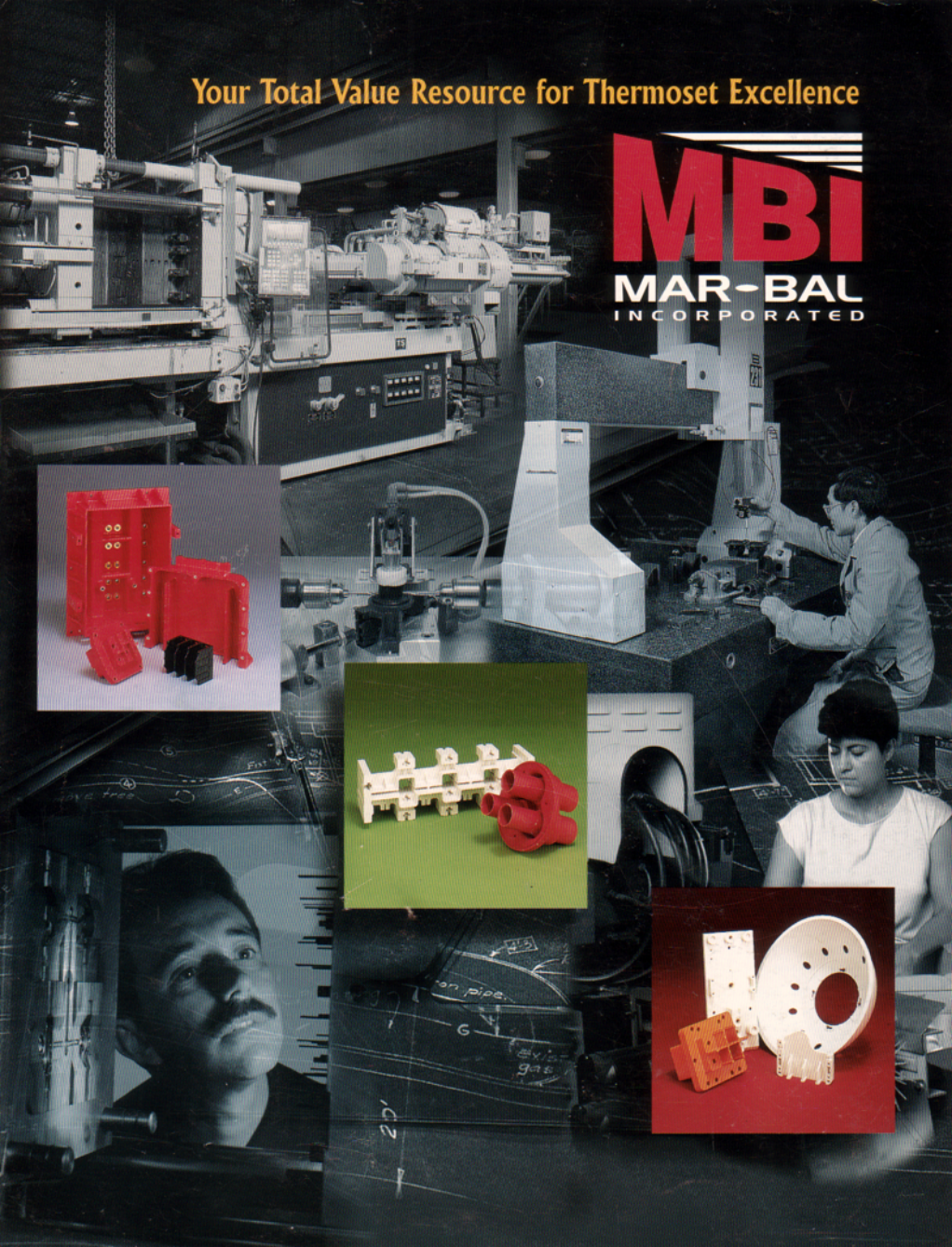
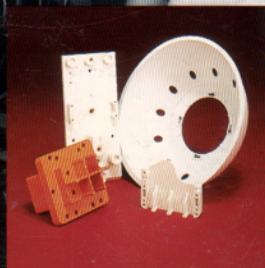
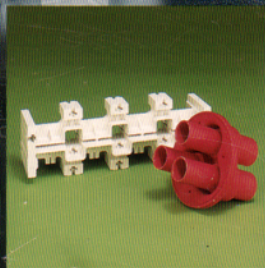
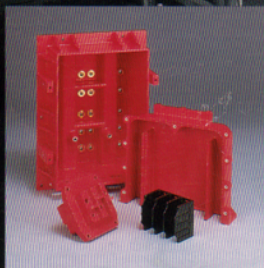


Your Total Value Resource for Thermoset Excellence

**MBI**  
**MAR-BAL**  
INCORPORATED



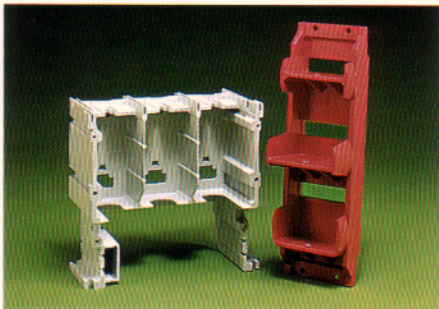


## STARTING WITH THE BASICS

Every finished product carries its own quality profile intrinsic to the union of its components. Mar-Bal recognized this simple fact of manufacturing three decades ago and has been building an enviable reputation on its tenets ever since. We focused on long-term success by developing expanded service relationships with every customer we served.

Continuing today, this is the advantage we deliver to our customers. We call it our "Total Value Commitment".

Choosing your supplier for custom thermoset molding no longer has to be merely a price issue. With Mar-Bal you will enjoy competitive pricing plus gain a complete package of services not dictated by the usual competitive minimum parameters.



## CONSIDERING THE BOTTOM LINE

Mar-Bal provides materials engineering and compounding fully controlled by our in-house, state-of-the-art laboratory. With this expertise right at hand, extraordinary quality control assurance is virtually guaranteed. Our materials are tested in accordance with both UL and ASTM standards and are constantly monitored and audited.

We can formulate special materials for your specific applications. All compounds offer excellent mechanical properties as well as electrical insulation, heat resistance, dimensional stability and superior arc and track resistance.



As company policy, your new Mar-Bal tooling will be maintained at no additional cost for the duration of its expected mold-life. This preventive maintenance program for molds is second to none in the industry and is, therefore, integral to your demands for concise quality over the design-life of the part.

Expect expert assistance every step of the way – from initial project scope to prototype evaluation, part analysis, mold design and finally into production. Our Total Value Commitment has many faces – all designed to help enhance your bottom line.



## OUR PEOPLE MAKE THE DIFFERENCE

When you begin to interface with Mar-Bal people, you'll immediately sense the enthusiastic attitude they bring to the table. Our philosophy incorporates an attitude of continuous improvement:

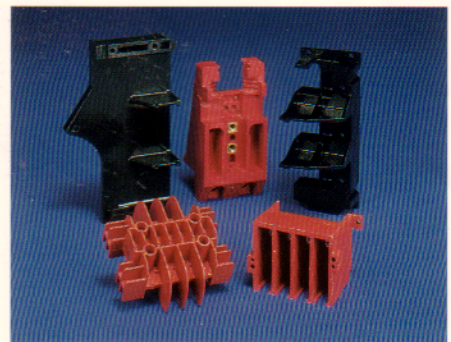


Insert Molding

There is always room to refine and advance thermoset disciplines and we strive to be on the cutting edge. Progressive, interactive employees and management are what distinguishes Mar-Bal from our competitors and provides our customers with the "Total Value" advantage.

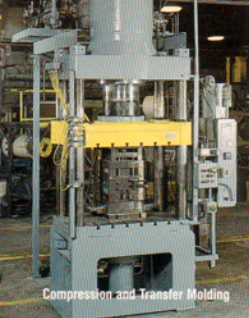
## ADVANCED TECHNOLOGY AND PROCESSES

We've grown and evolved from a producer of stand-off insulators for the electrical distribution industry. Our core business today consists of manufacturing custom molded parts for electrical distribution and control devices plus a wide range of components for the appliance industry. We routinely

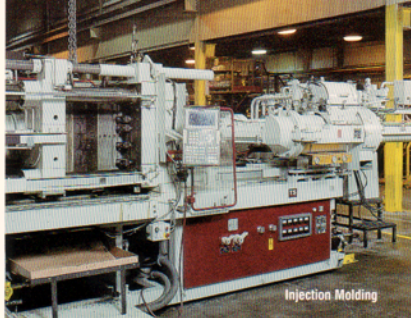


mold parts for electrical switchgear, controls, motors, drives, circuit breakers, transformers, telecommunication devices, rail and aviation.





Compression and Transfer Molding



Injection Molding

Our appliance industry molding experience includes parts for electric and gas ranges, wall ovens, dishwashers, laundry products, floorcare products and other countertop appliances.



Additionally, we've evolved and built a significant leading position in specialized molding of thermosetting composites and bulk molding compounds (BMC) including glass-filled polyesters and phenolics.

Our advanced technical expertise in compounding and in thermoset molding technologies has translated into a strong presence as a supplier for transportation, aviation and marine applications.

## CAPACITY

The strategic locations of our three manufacturing plants can impact logistics, just-in-time delivery and, ultimately, cost-effectiveness. Each facility offers identical capabilities and staffing so every project continues to move forward on a fast track. Uniquely, Mar-Bal is adept at handling everything from short-run, custom jobs to high-volume production runs.

Call us when you need a supplier where quality and extraordinary service are top priorities. Whether for injection, transfer or compression molding of thermoset composites, you should expect more than just "parts at price". At Mar-Bal, a staff of 280 is dedicated to continuously elevating the standards of excellence in thermoset technology and production. Our Total Value Commitment pervades every level - from the plant floor to the boardroom and it's yours from the moment you trust us with your thermoset molding challenge. Try us.



Automated De-flashing and Finishing



Secondary Machining and Fabrication

## THE MAR-BAL ADVANTAGE

### MANUFACTURING:

- Custom molding and compounding of thermosetting materials
- Bulk Molding Compound (BMC) mixing and extruding
- Injection, compression and transfer molding of BMC/SMC, Polyester, Phenolics and Epoxy
- 50 to 1000 ton press capacities
- Press rebuilding and customization
- 157,000 square feet total plant space
- Insert Molding
- Secondary machining and fabrication
- Powder coating
- Automated de-flashing and finishing
- Sub-assembly contracting

### FULL SERVICE ENGINEERING:

- Mold design and re-engineering services
- Thermoset materials development - UL and FDA approved
- Proprietary and OEM product lines (UL recognized stand-off insulators and flame retardant waste baskets)
- Pro-Engineering and AutoCAD design software used
- Complete tool engineering design
- Mold-flow analysis for enhanced part design
- Value Engineering
- Prototype and model capabilities

### QUALITY AND PROCESS CONTROL:

- Mold maintenance program
- State-of-the-art laboratory facilities
- Statistical Methods S.P.C.
- D.O.E. (Design Of Experiments)
- Supplier Certification Programs
- Continuous Improvement And Training In Quality Sciences

### CUSTOMER SERVICES

- Just In Time and Kanban delivery
- Customer Inventory Programs
- Bar coding
- Electronic data interchange
- Product design engineering assistance



## MISSION STATEMENT

To be the customer service leader in the engineered composites industry through innovations in molding, materials and process development. To develop and continuously improve long-term relationships with our customers, suppliers and employees, while growing sales for future generations. We will provide to every customer our Total Value Commitment.

TVC



**MBI**  
MAR-BAL  
INCORPORATED

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Phone 440.543.7526  
Fax 440.543.4374

**Dublin Virginia Plant**  
54,000 square feet  
5400 Reserve Way  
Dublin, VA 24084  
Phone 540.674.5320  
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