

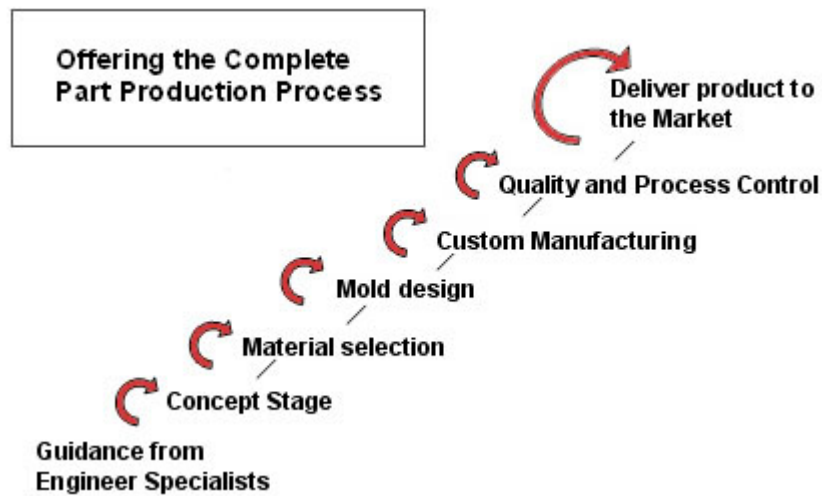


Sub Assembly

MAR-BAL CAPABILITIES

The Mar-Bal Advantage

"We are an extension of our Customers, designing, molding and manufacturing for their product."



We begin proactively with our engineering and tool design and ultimately deliver high-quality parts with our molding and manufacturing.

Custom Molding

- Injection, Compression, Insert and Transfer Molding of BMC/SMC, Polyester, Phenolics and Epoxy
- Mold design for your product
- Compounding of Thermosetting Materials
- Full Service Value Engineering

Tooling

- Design and create custom tools to deliver your product
- Design software with Pro-Engineer
- Capable to read DWG, DXF, IGES, S&P, STL files
- Early supplier involvement on tooling ensures long term quality and cost effectiveness for our customers

Manufacturing

- Mixing and Extruding
- Sub-Assembly Contracting
- Press Rebuilding and Customization
- Automated de-flashing and finishing

Unique Advantages

- Metal Replacement
- Mechanically Stable, Helps reduce costs, Lighter weight
- Replacing Castings, Motors, Brackets...Unlimited Possibilities
- Porcelain Replacement
- Cost Effectiveness
- On Time Delivery
- Consistent Communication with Customers
- Assistance in delivering your product to the Market quickly
- Marketing Initiatives

Customer Support

Mar-Bal offers full service support during product design. Mar-Bal provides system mold design to optimize design at a cost that is competitive in the marketplace and ensures long-term performance of your product. Mar-Bal can also assist in marketing initiatives for your products.

As company policy, your new Mar-Bal tooling will be maintained at no additional cost for the duration of its expected mold-life, except when the customer makes engineering or design changes. This preventative 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.

We guarantee full service mold repair at all plants. From front-end engineering support to a thorough follow-up, you can depend on Mar-Bal's specialists to produce only long-life, high quality parts.

Additional Capabilities

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 sq. ft. total plant space
- Insert Molding
- Secondary machining and fabrication
- Powder coating
- Automated de-flashing and finishing
- Sub-assembly contracting

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 services

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

Customer Services:

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