



TRI-MACK™
PLASTICS MANUFACTURING CORPORATION



*Advanced Composite Manufacturing
For Critical Applications*

AS9100
ISO 9001:2008
NADCAP





TRI-MACK™
PLASTICS MANUFACTURING CORPORATION

We deliver *Success*

Tri-Mack is an innovative engineering and manufacturing company specializing in high temperature thermoplastics and thermoplastic composites. We produce tight-tolerance, high-performance components and assemblies for many demanding industries – aerospace, defense, chemical processing and industrial equipment.

From Concept to Production

Flexible and responsive to your needs, we work with you through the entire lifecycle of a part, from design and material selection to process development and production manufacturing. At Tri-Mack, we deliver in spec components on time and on budget.

By focusing on service, quality and continuous improvement, we deliver engineered solutions that save you time and money. The result: Your success.



Innovative *Engineering* delivers creative solutions

Bring Tri-Mack your challenge and we will develop the best solution. If you have a new product, we can use our NPI procedure to ensure a successful product launch. If you are looking to reduce weight, you can rely on our metal-to-plastic conversion expertise. If your challenge is to reduce costs, we can review your designs for part consolidation and process improvement. Whatever your need, Tri-Mack has the tools to support you through every stage of development.

Our highly skilled designers and engineers work hand in hand with you to define your requirements, saving time through concurrent engineering. We can identify the best material, design for producibility, provide prototypes, build tooling, and develop a production process that will yield high quality components.

Tri-Mack's goal is to create the precision engineered part that suits your needs and improves your product's performance.





Comprehensive *Manufacturing* delivers quality products

Unlike other plastics processors, we are more than injection molders. Tri-Mack offers a complete portfolio of manufacturing capabilities including injection molding, tool making, multi-axis CNC and water jet machining, NADCAP certified bonding, assembly and functional testing.

In our Advanced Composites Center, Tri-Mack offers state of the art thermoplastic composite processing. Here we use automated equipment to lay up, consolidate and form continuous glass and carbon fiber reinforced thermoplastics. Tri-Mack produces high performance components using unidirectional and fabric prepreps in materials such as PEEK, PEK, PPS and PEI.

Our AS9100/ISO 9001-2008 certification reflects our commitment to quality. We use Six Sigma and Lean principles to deliver reliable, cost-effective manufacturing for your most demanding components.

With such diverse capabilities, you get the benefits of working with a single vendor, streamlining development, improving quality and reducing cost. In addition, Tri-Mack's unparalleled customer service is always available to support your critical needs. Put the Tri-Mack team to work for you and gain a time and cost advantage.



Materials *Expertise* delivers high performance

Our solutions start with intimate materials knowledge. Tri-Mack is focused on the highest performance engineering thermoplastics and thermoplastic composites. These include Victrex PEEK, Torlon PAI, Ultem PEI, Fortron PPS, Amodel PPA, Nylon PA, Teflon PTFE and Vespel PI. Whether you're looking for increased strength or improved wear resistance, we have the expertise to make it happen.

We use many different standard and custom compounds to meet your application's goals, from self-lubricated plastic bushings to light weight aerospace structural components. These compounds include carbon fiber, glass fiber and PTFE fillers and come to us in many forms from injection mold pellets to extruded shapes to unidirectional tape. Our team works with materials from all the major suppliers, ensuring the best material is used for each application.

Why thermoplastics?

They improve your product's performance by reducing weight, friction, corrosion, costs and more.

Why Tri-Mack?

We have over 35 years experience in processing high-performance thermoplastics, enabling us to create innovative, cost effective solutions engineered for you.

The best part is your success.™



Contact us to learn how Tri-Mack's latest innovations can help you succeed.

Engineering

- New Product Introduction
- Part Design and Producibility
- Process Development
- Metal-to-Plastic Conversion
- Tool Making

Manufacturing

- Injection Molding
- Automated Lay-up and Thermoforming of Advanced Composites
- Multi-axis CNC Machining
- Dynamic Waterjet
- Bonding, Assembly and Testing

Materials

- High Temperature Engineering Thermoplastics
- Continuous Fiber Reinforced Thermoplastic Composites
- PEEK, PAI, PEI, PPS, PPA, PI, PTFE and More

The best part is your success.™



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