



# Advanced Molding Solutions

## Your Path to Unmatched Quality

Alliance is a leader in the molding industry, renowned for its comprehensive in-house capabilities. Our state-of-the-art facilities are equipped with advanced technologies that enable us to deliver high-quality products tailored to meet the specific needs of our clients. With over 80 injection molding machines in the Eastern US, Alliance has the capability to support customer growth.

## Molding Solutions for Projects of All Shapes and Sizes

- Consistent Customer Process:** We ensure a seamless and uniform process for all customers, maintaining high standards of quality and efficiency regardless of mold origin.
- Weight and Assembly Optimization:** Our innovative approach reduces part weight and simplifies assembly, enhancing overall product performance and ease of use.
- Strategic Material Selection:** We prioritize selecting materials that maximize performance and minimize costs, ensuring optimal results for every project.
- Versatile Production Capability:** Our facilities are equipped with a diverse array of machinery, including a 900-ton clamp press, capable of producing large and complex parts with precision.
- Controlled Environment Manufacturing:** Our clean room facilities guarantee the highest standards in production quality, ensuring purity and precision in every product.
- Advanced Molding Techniques:** We specialize in insert and over-molding, including bushings, bearings, and inserts, as well as two-shot molding for complex, multi-material components.
- Integrated Decorative and Assembly Solutions:** In-cycle decorating and assembly streamline production processes, enhancing product appeal and functionality.
- Efficient Cycle Operations:** Our operations within the molding cycle are optimized to save time and reduce costs, delivering efficiency and value.
- Future-Ready Automation:** We embrace automation and robotics, building for future advancements in manufacturing, ensuring cutting-edge solutions and innovations.



Made in  
the USA



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*Alliance consistently delivers exceptional service and high-quality products. Their dedication to our success makes them an essential part of our supply chain.”*

— CM

# What we offer:

## • Services

### • Engineering

- Dedicated Project Engineer
- Resin Selection and Formulation
- Design For Manufacturing (DFM)
- Injection Mold Tooling Design
- Mold Flow Analysis
- Plastic Part Design Assistance

### • Tooling

- Full service toolroom
- CNC Mills
- CNC Lathe
- Conventional RAM and Wire EDM
- Dedicated Mold Maintenance and Repair
- Global Tooling Solutions
- Comprehensive Preventative Maintenance Programs
- Tool Transfers and Optimization

### • Molding

- 83 Injection Molding Machines in Eastern US
- Injection Molding From 28 – 900 ton
- Shot Sizes .25 oz – 146 oz
- Insert Molding
- Horizontal and Vertical Molding
- 2 Shot Molding and Over Molding
- In Line Automation / Robotics
- Class 8 (100,000) Clean Room
- Real Time Production Monitoring

### • Assembly

- Simple to Complex Assemblies
- Decorating – Pad Printing / Hot Stamping
- Heat Stake Inserting
- Vibration Welding
- Ultrasonic Welding / Inserting
- Gluing/Bonding
- Precision Post-Mold CNC Machining

## • Technology

- IQMS Enterprise IQ ERP
- Siemens NX CAD/CAM
- SolidWorks CAD
- Mastercam CAM
- AutoDesk Mold Flow

## • Quality

- Dedicated Quality Engineer
- Formal Product Realization Process
- PPAP – Production Part Approval Process
- IQ/OQ/PQ – Process Validation
- FMEA - Failure Mode and Effects Analysis
- DOE - Design of Experiments
- Programmable CMM and Vision Inspection

## Contact Us Today

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New York (Corporate Headquarters): ISO 9001, ISO 13485, UL Listed, and FDA Registered | North Carolina Facility: ISO 9001 and UL Listed