



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



“

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

New York (Corporate Headquarters)

1220 Lee Road, Rochester, NY 14606

North Carolina

171 Fairground Rd, Spindale, NC 28160

585-426-5310

sales@allianceppc.com

AlliancePPC.com

