



***Molding
Excellence.***

***Experience
You Can Trust.***



***Design &
Engineering***



***In-House
Tooling***



***Injection
Molding***



***Value-Add
Assembly***

Welcome to Alliance Precision Plastics

When it comes to selecting a critical path molded plastic component or subassembly, you have many options. At Alliance Precision Plastics, we bring extensive experience, technical expertise, and state-of-the-art facilities to meet even the most complex plastic part requirements.

Founded in 1947 as a supplier of tooling and stamping dies, Alliance has transformed into a leading contract manufacturing partner to some of the most reputable global OEM's. Our products are integrated into everyday life - whether at your doctor's office, on the playing field, in your SUV, at home, or on construction sites.

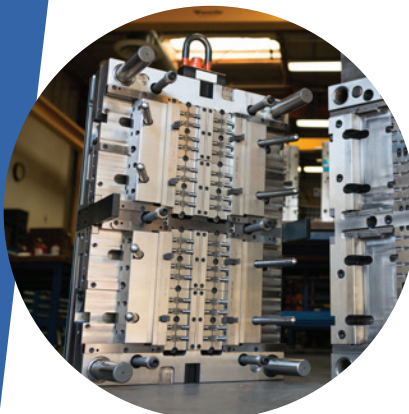
At Alliance, we understand that our success is deeply intertwined with that of our customers. Our dedicated team of over 350 professionals is committed to collaboration, optimized design, cost-effective solutions, and reliable quality - all aimed at delivering the very best product at the very best price.



Design & Engineering



- **Highly Experienced Project Engineers:** Our team brings extensive expertise to every project, ensuring optimal design and engineering solutions.
- **Dedicated Cross-Functional Team:** Collaborating throughout the entire process, from concept to completion, to achieve the best results.
- **Quality and Cost Efficiency:** Capable of producing high-quality products while minimizing costs for greater value.



In-House Tooling



- **Full-Service Tool Room:** Equipped with advanced capabilities and state-of-the-art technology for comprehensive tooling solutions.
- **Complete Tooling Services:** Offering machining, inspection, maintenance, and repair to ensure optimal performance.
- **Global Tooling Solutions:** Providing global tooling options when appropriate, ensuring flexibility and responsiveness.



Made in the USA



- **Stringent Quality Control Standards:** Adhering to rigorous standards that ensure reliability and durability for consumers.
- **Support for Local Economies:** Contributing to local job creation and economic growth through domestic manufacturing.

Learn more at AlliancePPC.com



Complete Library of Resins



- **Extensive Resin Selection:** Our library features a wide range of resins, including commodity and engineering-grade thermoplastics and specialty options for diverse applications.
- **Detailed Specifications:** Each resin entry includes comprehensive performance characteristics and processing guidelines for informed material selection.
- **Continuous Updates:** Access to a global network of resin partners to assure the latest advancements in resin technology and cutting-edge materials for unique project requirements.



Injection Molding



- **Advanced Production Capabilities:** Skilled in producing complex component parts of all sizes with precision and efficiency.
- **Certified Clean Room:** Operating within a 4,000-square-foot clean room, certified at Class 100,000 (ISO Class 8), for high-quality production.
- **Diverse Molding Techniques:** Offering insert and over-molding, two-shot molding, in-mold decorating, and in-cycle assembly for versatile solutions.



Value-Add Assembly



- **Comprehensive Assembly Services:** Providing extensive value-added electromechanical assembly options, machining, heat staking, gluing, decoration/printing and various bonding and welding techniques.
- **In-House Execution:** Comprehensive dedicated value-added team to enhance efficiency and maintain strict quality control.

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*Alliance has
always been
reliable and even
if challenges
arise we can
work through
them quickly
and efficiently
to keep our
business flowing!”*

— CHET M.

*Long-time Alliance
PPC Customer*

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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