



# Precision Tooling Solutions

## Expert Tooling for Sustainable Success

At Alliance Precision Plastics, we take pride in our comprehensive in-house tooling capabilities. Our highly experienced technical molding team is dedicated to delivering exceptional results you can rely on. Leveraging extensive expertise, our skilled tooling engineers develop innovative solutions tailored to meet the unique needs of each project, ensuring precision and quality at every stage.

## Extensive Tooling Capabilities - All Under One Roof

- **Comprehensive Tool Room Services:** Elevate production with our advanced, full-service tooling solutions tailored to your specific needs.
- **Expert Repair and Maintenance:** Ensure peak performance with our dedicated engineering support for all tooling.
- **Strategic Tooling Proximity:** Maximize efficiency by keeping tooling conveniently close to molding operations.
- **Flexible Global Solutions:** Access scalable global tooling options as required for your projects.
- **Specialization in Mold Transfers:** Rely on our expertise for mold transfer for seamless integration.
- **Thorough Process Management:** Collaborate with us for meticulous inspections, documentation, and updates throughout production.
- **State-of-the-Art Technology:**
  - **Precision EDM Machining:** Achieve unmatched accuracy and efficiency with our advanced machining services.
  - **High-Performance CNC Milling:** Benefit from cutting-edge milling processes that deliver superior quality.
- **In-House Manufacturing Control:** Enjoy enhanced control and efficiency with all manufacturing processes conducted internally.



**Made in the USA**



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***The team at Alliance is always ready to help. Their responsiveness and attention to detail ensure that we receive exactly what we need, when we need it. Truly a pleasure to work with!"***

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# 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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