



# Value-Add Assembly Solutions

## Unlock the Full Potential of your Projects with Alliance

At Alliance, we believe in empowering our customers with expanded and streamlined solutions that enhance both productivity and innovation. Our value-add assembly, machining and decoration services are designed to meet a diverse range of manufacturing needs under one roof, maximizing the quality and cost-effectiveness of your project. Alliance currently offers assembly capabilities for up to 200 components, including finished packaging, to support even the most complex manufacturing requirements.

## Alliance's advanced assembly services can elevate your projects to new heights:

- **Flexible Manufacturing Cells:** Our flexible cell manufacturing approach enables rapid adaptation to changing production needs, ensuring efficiency, scalability, and cost-effectiveness.
- **Comprehensive Secondary Tooling:** Optimize production with our specialized tooling solutions, tailored to fit your unique requirements.
- **Precision Machining:** Benefit from our state-of-the-art machining services that deliver accuracy and efficiency for all components.
- **Multi-Head Inserting:** Streamline your assembly process with our innovative multi-head inserting technology, increasing speed and reducing labor costs.
- **Reliable Heat Staking:** Achieve strong, durable joins with our heat staking services, perfect for a variety of materials and applications.
- **Expert Gluing Solutions:** Ensure a secure bond with our expert gluing services, designed for maximum adhesion and performance.
- **High-Quality Pad Printing:** Enhance your products with our precise pad printing services, ideal for branding and customization.
- **Efficient Vibration Welding:** Take advantage of our vibration welding capabilities for strong, permanent joints without the need for adhesives.



*Alliance has made it  
easy to buy from them.  
Great prices and great  
customer service makes  
the decision very easy!"*

— 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](mailto:sales@allianceppc.com)**

**[AlliancePPC.com](http://AlliancePPC.com)**

