



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 joints 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!"

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