



# Quality Assurance

Engineered for precision from the start, our quality approach integrates control and verification into every phase of production. With advanced metrology, disciplined systems, and globally recognized certifications, we deliver consistent, compliant, and repeatable results—from design validation through final inspection.

## Precision You Can Measure

### Certified Systems and Controlled Processes

Alliance's quality framework is designed to maintain complete process control and product integrity. Each program follows a formal quality plan, led by dedicated quality engineers and supported by proven validation methods such as FMEA, DOE, IQ/OQ/PQ, and SPC. This structured approach ensures every manufacturing process meets strict performance and regulatory standards.

### Measured, Verified, and Continuously Improved

Advanced inspection and metrology systems verify that every part meets exact specifications and functional requirements. Through real-time monitoring and NIST-traceable calibration standards, we maintain measurement accuracy and consistency. A culture of continuous improvement drives ongoing refinement of our processes, documentation, and technologies—enhancing precision and sustaining compliance across every project.

### Committed to Quality Assurance and operational excellence

- ✓ ISO 9001:2015 certified
- ✓ ISO 13485:2016 certified
- ✓ UL Registered
- ✓ Formal Quality Plans
- ✓ Class 100,000 (ISO Class 8) Clean Room
- ✓ Customer-Focused Dedicated Quality Engineer
- ✓ Formal Product Realization Process
- ✓ Automated Vision Inspection



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**Alliance consistently delivers exceptional service and high-quality products. Their dedication to our success makes them an essential part of our supply chain."**

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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

### 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)**



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