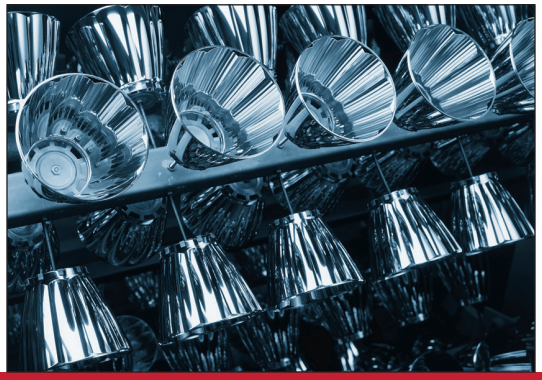
A.L.P.®

A.L.P. is the premier designer and manufacturer of innovative injection molded components for lighting and other industries.



MARKETS SERVED

LED Lighting
Automotive
Medical
Point-of-Purchase
Marine
Transportation
Sporting Goods
Aerospace

World-Class Injection Molding Services — from Concept to Design to Production

A.L.P. is an industry leading provider of engineered thermoplastic injection molded components. Long recognized for designing and manufacturing the finest optical lighting components, A.L.P. also serves markets such as Medical, Marine Signal, Automotive, Signage, Point of Purchase, Electronic Equipment, Appliance and Mass Transportation.

Known for its expertise in injection molding, product and tooling design, A.L.P. offers diverse capabilities, all of which can be combined to meet your unique requirements to maximize potential.

Your Complete Source for Optical Plastic Solutions

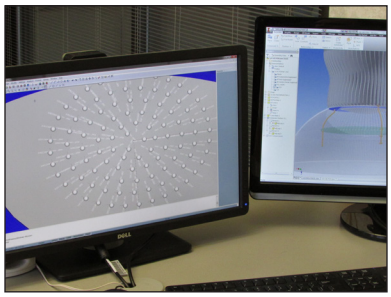
We are your comprehensive resource for:

- Innovative Designs
- Materials Expertise
- Superior Tooling
- Production Excellence
- Economical Pricing
- Competitive Lead Times
- Quality Products

CUSTOM SERVICES

Design and Engineering

Product design and engineering services for a wide range of products, with expertise in new product development from design to final production.



Tooling and Prototyping

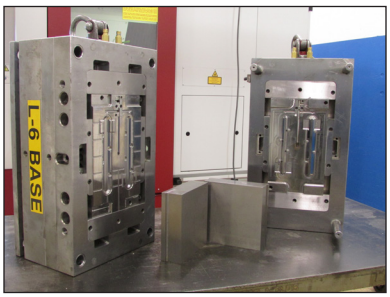
Design, build and maintain high efficiency injection molds. For all molds that are built by A.L.P., the customer will pay for the original purchase of the tool but in most cases will not have any additional mold maintenance or repair charges for the lifetime of the tool.

- Rapid Prototyping
- Economical Fast-Track Tooling with standard mold inserts
- 5-Axis Laser
- High Speed Machining
- Lifetime Tooling Management and Mold Maintenance

Product Testing

A.L.P. experts use in-house labs for rapid analysis of fixture, material, and coating performance.

- Absolute Photometry
- Relative Photometry
- UV Testing
- Heat Testing



Contract Assembly

When time-to-market and efficiency matters, you can consider the assembly capability of A.L.P. as an extension of your own manufacturing team.

- Experience with lighting electronics and wiring
- Economical Labor Cost
- Lower Overhead
- Quality Protocols
- Demand-Based Flexibility

Warehousing and Logistics

A.L.P. dedication to supply chain excellence gives customers a competitive advantage.

- Logistics Planning and Support
- Just-In-Time and Safety Stock Inventory
- EDI Order Processing
- Bar Coding
- Economical Packaging Solutions

MANUFACTURING CAPABILITIES

PRODUCTION

- 100 -1,650 ton presses
- Shot size from 4 to 260 ounces
- Mold base sizes up to 60 inches
- Servo Robot Technology
- In-line extruder/thermoformer
- Compression molding
- Gasketing

SECONDARY OPERATIONS

Metalizing

- Vapor Deposition batch vacuum metalizing
- Fast cycle sputtering with in-chamber top coating capability

Coatings

- UV cure base coats
- First and second surface painting

Laser cutting

- Precision two- and three-dimensional shapes for plastic, steel, and aluminum
- Edge polishing for plastic

Fastening and assembly

- Sonic welding, spin welding, hot stamping, post mold machine and assembly

SPECIALIZED EXPERTISE

Quality Materials

A.L.P. production processes can accommodate all thermoplastic resins, specializing in clear and transparent colored materials.

- UV Resistant Acrylic
- UV Enhanced Polycarbonate
- ABS
- Optical Silicone
- PP
- PS
- Nylon
- PETG
- Noryl
- Polyetherimide

Silicone Injection Molding

- 80-ton, 180-ton, 220-ton, three 240-ton and 660-ton
- Mold base sizes up to 175 sq in

Unique performance characteristics including:

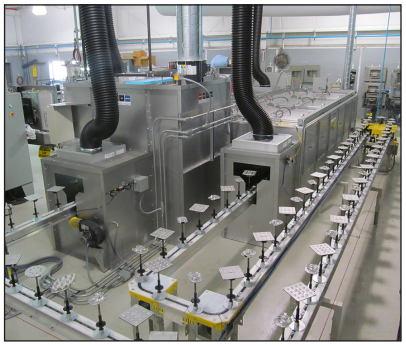
- UV Resistant
- 92-93% Light Transmittance
- No Yellowing or Cracking
- Self Gasketing
- F1 rated for Weatherability
- Flammability: HB rated for Flammability
- Relative Thermal Index (RTI): 150 degrees C (300 degrees F)

Edgelit Injection Molding

- 88 ton - 1650 ton presses
- Economical fast-track tooling with standard mold inserts
- Standard sizes include 48” x 12”, 24” x 12”, 24” x 8” and 24” x 24”
- Tooling experts who understand edgelit
- Tools accommodate specifications for size, light source, light output pattern, and thickness
- CAD modeling capabilities
- Adherence to Production Part Approval Process (PPAP) for all new products

Engineering Services

- Product Design
- Optical Engineering
- Rapid Prototyping
- Testing
- Performance Verification



Manufacturing Facilities

A.L.P. has three injection molding plants, strategically located near automotive OEM customers to promote collaboration, speed production, and minimize freight costs.

A.L.P. continuously improves the efficiency and productivity at all of our manufacturing plant locations by investing in new systems and equipment.

Charlevoix, MI

The A.L.P. Charlevoix, MI facility is **ISO 9001:2015 certified** for the manufacture and assembly of plastic components.

10163 US31 N Charlevoix, MI 49720-9649
231.547.6584 | Fax: 231.547.5833

Dickson, TN

The A.L.P. Dickson, TN facility is **ISO 9001:2015 certified** for the manufacture and assembly of plastic components.

IATF 16949 compliant with certification pending.

One Gum Branch Road, Dickson, TN 37055
615.446.7733 | Fax: 615.446.3007

Monterrey, Mexico

The A.L.P. Monterrey, MX facility is **ISO 9001:2015** for the manufacture and assembly of plastic components.

Calle Avenida Industrial 303, Parque Industrial La Silla, Apodaca, Nuevo Leon, MX 66648
52.818.288.0500 | Fax: 52.818.288.0519

A.L.P.

Customer service: 877-257-5841 • www.alpadvantage.com

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