

Market – Precision Industrial

Thermoplastic Molding Expertise for High Quality and High Volume Manufacturing

Total production cost and time-to-market are critical factors for industrial goods. Spectrum Plastics Group is your one stop injection molding partner, capable of start-to-finish services from product design input, rapid prototyping and tooling to molding, assembly and decoration.

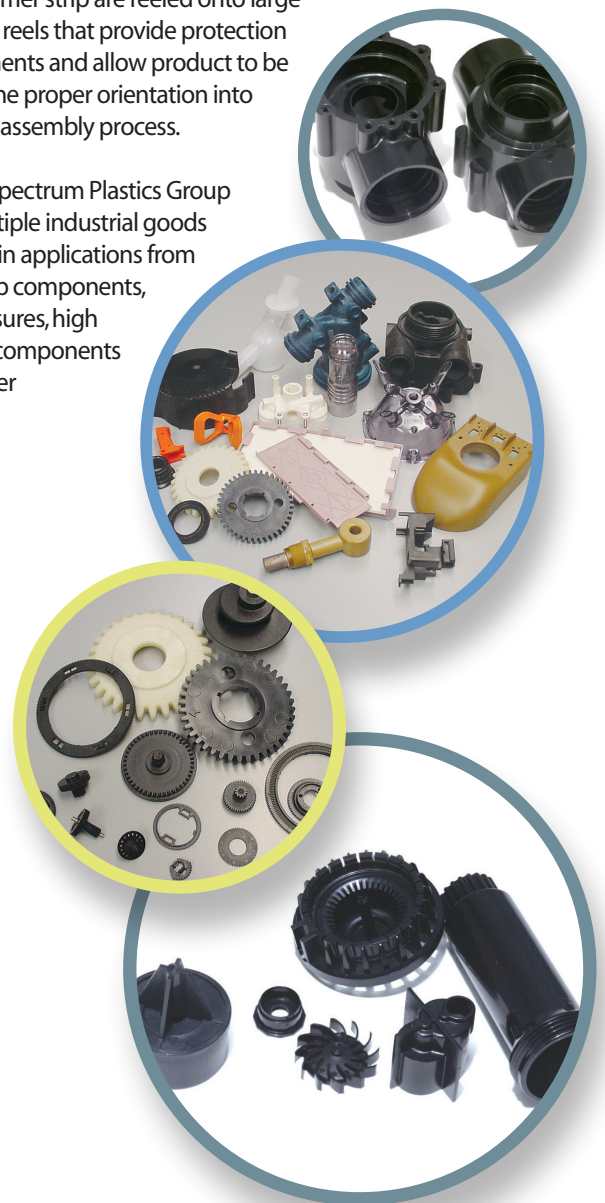
Spectrum Plastics Group has considerable experience in new projects, as well as transferring and solving existing production related issues. We will support your program from your easiest part configurations to your most complex moldable geometries. With our in-house plastic CNC machining capabilities, we can provide solutions to save on tooling expense and create non-moldable parts.

Spectrum Plastics Group utilizes reel-to-reel continuous Mylar™ strip feed molding to supply high volume product manufacturers with precision components in a method to enhance the efficiency of their high-speed automated assembly equipment. When precision location and alignment of product is required in a high-speed assembly environment, Spectrum Plastics Group offers a solution to eliminate problematic bowl feed applications of plastic

components. High volumes and small components molded on a carrier strip are reeled onto large capacity plastic reels that provide protection for the components and allow product to be introduced at the proper orientation into the automated assembly process.

For 50+ years, Spectrum Plastics Group has served multiple industrial goods manufacturers in applications from thick-wall pump components, thin-wall enclosures, high pressure valve components to a host of other applications.

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Our full service capability acts as an extension to your current engineering and manufacturing by providing the following group of services:

Design & Engineering Services

- Rapid Prototyping (SLA, LS, RTV Castings, CNC Machining)
- Rapid Tooling (aluminum, P-20, or hardened steel)
- Product Design Support
- Design for Manufacturability and Assembly (DFM & DFA)
- MoldFlow Analysis
- Resins / Materials Expertise
- Tool Design and Build
- Molding Process (developed and validated utilizing decoupled/scientific molding methodology)
- Gage R & Rs
- Value Analysis / Cost Reduction
- Secured Electronic Communication

Manufacturing Services

- Injection Molding, Insert Molding, Over-Molding, Reel-to-Reel Molding, and Liquid Silicone Rubber (LSR) using Liquid Injection Molding (LIM) Technology (all available for low, medium and high volume production)
- Advanced CNC Plastic Machining (including tight tolerances, critical features and non-moldable geometries)
- Assembly & Sub-assembly (manual, semi-automated or automated)
- Stringent Process Qualification & Validation Methods (in process, on-going, and final testing as required)
- Molding Process (developed and validated utilizing decoupled/scientific molding methodology)

Value-Added Services

- Decoration (pad printing, hot stamping, screen printing, painting and decal application)
- Adhesive, Heat, Spin, Vibration, Solvent and Ultrasonic Welding
- Annealing
- EMI and RFI shielding
- Electro-less & Electrolytic Plating
- EM (Electro-mechanical) Assembly
- General Assembly (manual and semi-automated)

Quality Certifications

- ISO 9001:2008

To find out more, go to: www.spectrumplasticsgroup.com

Have a project you'd like to discuss?

Contact at us at sales@spectrumplasticsgroup.com

SPECTRUM PLASTICS™
GROUP

Rapid Prototyping Divisions

Corporate Headquarters

7309 West 27th Street, Suite 2100
Minneapolis, MN 55426
Main Tel: 952.929.3312
www.spectrumplasticsgroup.com

Eastern US

Dynacept Division
2 International Blvd
Brewster, NY 10509
Main Tel: 845.278.8500
www.dynacept.com

Western US

Protogenic Division
7401 W. Church Ranch Blvd, Suite 206
Westminster, CO 80021
Main Tel: 303.252.0212
www.protogenic.com

Production Facilities

Connecticut Facility

401 Birmingham Blvd
Ansonia, CT 06401
Main Tel: 203.736.5200

Minnesota Facility

7309 West 27th Street
Minneapolis, MN 55426
Main Tel: 952.929.3312



One Stop...Taking Your Design from Prototype through Production

- Design & Engineering
- Design for Manufacturability
- Rapid Prototyping
- Rapid Tooling
- Tool Design & Build
- Injection Molding Technologies
- Value-Added Services

Certifications

- ISO 9001:2008

