SPECTRUM PLASTICS™ GROUP

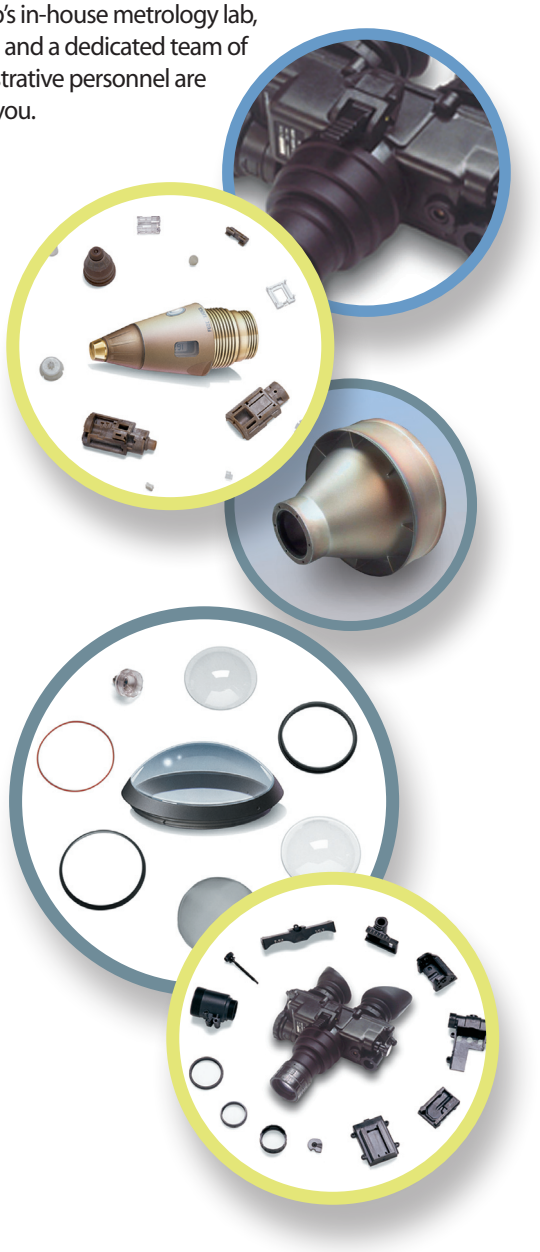
One Stop Partner

Market – Defense

Injection Molding Services for Critical and Demanding Projects

Spectrum Plastics Group has supported the defense market with some of its most complex components and sub-assemblies since 1958. Our understanding of the Federal Acquisition Regulations (FAR) and the resultant military procurement process, coupled with our superior engineering and processing capabilities have enabled the U.S. military to develop numerous programs taking advantage of the light weight and design flexibility of injection molded plastics. These include advanced weapons and night vision systems, fuzes, small, medium and large ammunition components, optically clear nose-cones and other items to numerous to list. Whether it is a new project or an existing weapon or ammunition platform, we are here to serve the needs of our nation's defense contractors.

We have the expertise to assist you with your material selection and help you in converting existing metal components to a wide variety of engineered thermoplastics. This process can provide weight reduction, improved performance and cost savings. Spectrum Plastics Group utilizes Scientific Injection Molding technology to define and then monitor the manufacturing process. Our 50+ years of experience in developing products from high heat engineered thermoplastic materials, filled and non-filled, coupled with this latest injection molding technology and in-house CNC plastic machining, will give you the confidence that you have located the right manufacturing partner for your product.
Spectrum Plastics Group's in-house metrology lab, development engineers and a dedicated team of production and administrative personnel are standing by to support you.



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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
- ITAR compliant and State Department Registered

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

Have a project you'd like to discuss?
Contact at us at sales@spectrumplasticsgroup.com

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
- ITAR compliant and State Department Registered

SPECTRUM PLASTICS™ GROUP

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