



PRECISION MEDICAL DEVICE MOLDING & MANUFACTURING

Scalable, High-Performance Thermoplastic Injection Molding Experts



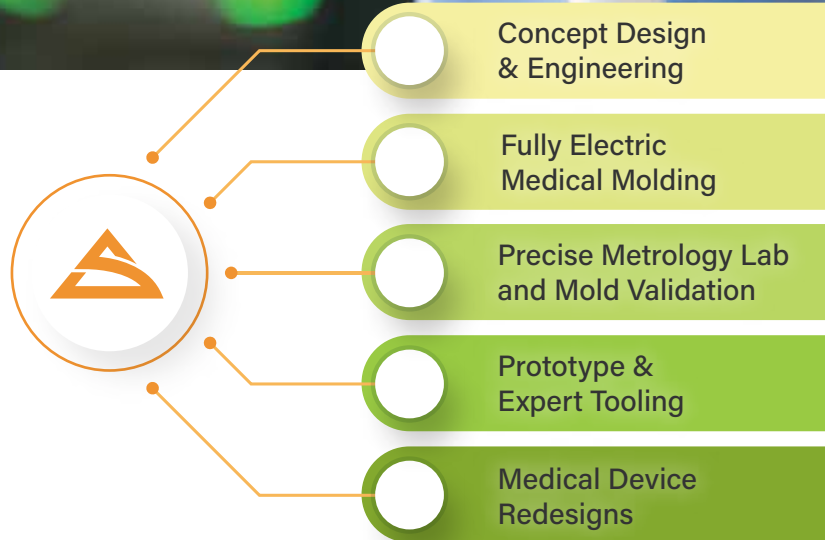
ADVANCE YOUR MEDICAL DEVICE PRODUCT PROGRAM

SPECTRUM INNOVATION

With technology advancing at such a rapid pace, choosing the right agile manufacturing partner delivers the strategic "time-to-market" competitive advantage you want but also the ability to easily adapt and quickly adjust with the proven scalability you need.

Specializing in all-electric, automated, close tolerance, thermoplastic medical device injection molding, Spectrum provides a fully integrated total concept solution from design and tooling to production, specialized kitting, custom packaging, and direct-to-user fulfillment.

Spectrum's state-of-the-art fully electric machines, ranging from 110 to 200 tons, occupy two dedicated clean-rooms fully optimized for top-quality performance. This cleaner, faster, repeatable, and energy-efficient operation uniquely provides a predictable, more precise, and fully automated process for consistently higher quality parts without error 24-hours a day, 7-days a week.



- R&D scientists and engineers
- Custom formulation laboratory and clean batching suites
- Fully automated part removal and sorting
- Scalability experts – 100's to Millions of parts per day
- Overflow molding and manufacturing support according to GMP standards
- Tight precision & repeatability with lower scrap rates
- Shorter start up times
- 70% Energy savings
- Lower unit cost with less material waste
- Documented preventative maintenance program with regular visual and dimensional part inspections

- ✓ Automated Precision Injection Molding
- ✓ Multi-Component Molding
- ✓ Innovative & Patient-Focused Medical Device Solutions



COMPREHENSIVE FACILITIES & INTEGRATED CAPABILITIES

SPECTRUM EDGE

Dedicated account management ensures processes, resources, compliance, and costs are managed effectively. Services include the development and production of molded parts and the assembly of complex groups of components. Additional options include customized packaging and labeling, unique device serialization, specialized kitting, chemical formulation, and direct-to-patient global fulfillment.

- Design controls for process
- On site technical tooling design
- Thermoplastic resins including: polypropylene, polyethylene, polycarbonate & more
- No thermosets or LSR
- Molding with cycle time optimization and productivity
- Latest vision inspection technology
- FMEA continuous improvement
- QMS ISO 13485 certification & clean-room component assembly
- Comprehensive testing with quality checks

SUPERIOR ENGINEERING & TECHNICAL EXPERTISE

SPECTRUM ADVANTAGE

The combined skill of over 50 years of experience and credibility starts from the very top. Spectrum's Chief Medical and Chief Science Officers along with some of the industry's most talented designers, engineers, scientists, and expert toolmakers provide the needed cross-functional support that ensures quality, precision tolerances, and optimized cycle times from design inception to product release.

Using the latest programs and technology, our team will evaluate, recommend, optimize, and model your components and their function providing faster mold validation turn-around times.

Our rapid prototyping and in-house expertise decrease standard development time, errors, and changes to improve deliverables. What's more, Spectrum offers specialized assistance in product development, design engineering, and manufacturing services to help bring your product to market as quickly as possible.

- Design for Manufacturing & Design for Assembly
- New Product Development
- Process engineering for injection molding
- Computer Aided Design
- Finite Element Analysis
- Mold flow simulation



MORE INFORMATION

Thermoplastic Resins

Medical and food grade/high purity

Product Redesigns

Improve medical device quality, user experience, competitive advantage, & drive next-generation innovation

Optimal Run Rates

Efficient & clean electric presses ranging from 110 to 200 tons

Dedicated Clean-Rooms

A clean-room environment is essential in providing stability, reliability, & control

Robust Quality & Processes

Structured, documented, & ongoing preventive maintenance with batched quality product releases & lot-based testing

For additional information or to get started on a new project proposals visit our website's injection molding page under services or email us at Colby@spectrumsolution.com.



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