

BRING MEDICAL INNOVATIONS TO LIFE. ***FASTER.***

A game-changing
opportunity to collaborate
engineer-to-engineer

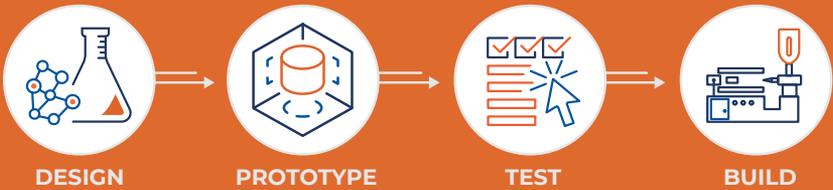


Looking for an innovation partner who gets your need for speed?

We understand that as a manufacturer of medical device applications such as diagnostics, drug delivery or surgical devices, you're under pressure to get to market faster, with devices that deliver new ways to improve clinical outcomes.

That's why our new innovation Center is intended for accelerated production-ready prototyping and manufacturing. It's going to be a gamechanger for leaders in healthcare innovation.

OUR COLLABORATIVE INNOVATION PROCESS



Through early engagement with R&D engineers in the development process, we are able to create better components and significantly enhance the value of our customers' products.

Explore our immersive test-build process that produces reliable, high-performance components or assemblies at accelerated speeds.

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DESIGN

DESIGNED FOR MANUFACTURABILITY

Medical device companies meet with our team to produce critical-to-function components in an accelerated innovation process.

We bring process engineers, design engineers, tooling engineers and materials scientists in the room from day-one — equipped with the right knowledge to ensure components are designed for scale-ready production from the beginning.

Your custom-molded rubber and thermoplastic components and devices can be manufactured at any one of our locations around the world, including the United States, Mexico, Europe, and China. Our facilities follow a mature Lean Six-Sigma program and ISO 13485 certifications, with multiple sites carrying FDA establishment registrations.

01



DESIGN

CUSTOM MATERIALS FORMULATIONS

Better performing devices are built through thoughtful designs and the right materials.

In medical applications, we regularly see standard material formulations performing below expectations — and over-engineered designs attempting, and often failing, to compensate.

We provide extensive expertise in custom rubber formulations to meet demanding specifications.



PRODUCTION-INTENT PROTOTYPES

Our ability to produce production-intent prototypes from any material in our ever-expanding library allows our customers to test fully functional prototypes of critical-to-function components early in the process. These prototypes can be easily scaled for production. Product development cycles that once took months can often be accomplished in weeks, many times with better performance and price results with increased ingenuity.



COMPREHENSIVE TESTING

Product and material development testing covers a comprehensive range of services including automated laser and vision inspection, advanced failure analysis technology, USP 381, USP Class VI and ISO 10993 test methods and simulated real-world testing to ensure full field confidence.

Additional material testing capabilities include:

- Coefficient of Friction Testing per ASTM D1894
- Leak Testing per ASTM F2338
- Physical and mechanical property testing
- Original and aged material property testing
- Rheological testing
- Microscopy
- Chemical and thermal analysis
- Environmental analysis

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BUILD

MANUFACTURING & DEPLOYMENT

Whether you are manufacturing a component or a complex assembly, we provide in-house rubber, LSR, HCR, plastic molding, insert molding and over-molding of dissimilar materials — all designed for production at scale.

We specialize in the assembly of close tolerance components and our assembly services include in-process and final testing, as well as 100% automated vision inspection for many medical applications in our ISO Class 7 and 8 clean rooms.

GET TO MARKET FASTER

Engage our accelerated innovation process now. Let's start collaborating.



What Awaits You at Our Innovation Center



Full Spectrum of Materials

Create production-intent prototypes from a full range of materials, including conductive elastomers and thermoplastics.



A Formula for Speed

With our entire prototype process under one roof, we can condense development processes that would typically take weeks into a handful of days. The result? Production-intent, fully functional and ready-to-scale parts.



Deep Expertise

Collaborate directly with design engineers, tooling engineers and materials scientists who offer world-class elastomer and thermoplastic component design expertise.

About Minnesota Rubber and Plastics

Minnesota Rubber and Plastics (MRP) is a leader in material compound development and the manufacturing of custom elastomeric and thermoplastic components. For over 76 years, the company has built a reputation for collaborative design and successful production of “the tough parts.” With facilities across North America, Europe and Asia, MRP collaborates with original equipment manufacturers to solve difficult sealing and component challenges across multiple markets. Capabilities include materials science and formulation development, fully functional product prototyping, operational excellence and supply chain consolidation.

The company’s Innovation Center will provide customers with direct access to materials science expertise — as well as a fully integrated design-build-prototype-test process that greatly accelerates product development.

The company emphasizes research and development and empowers technical minds to design, formulate, develop, optimize and test a wide range of highly engineered materials and parts.

**For more information,
please visit www.mnrubber.com.**