



Accelerate Early-Stage Medical Device Development

How Manar Medical Accelerates Innovation

Bringing a new medical device from concept to commercialization has never been more promising and more complex. Startups and product development teams are moving at unprecedented speed, fueled by increased venture investment, emerging technologies and profitable exit opportunities. However, the path is filled with many roadblocks:

- Costly redesigns
- Unclear regulatory paths
- Capital-intensive infrastructure
- Manufacturing partners joining too late

Manar Medical was created with key capabilities under one roof to remove barriers. This helps innovators move faster with less risk and dramatically greater capital efficiency. Medical device customers benefit from Manar's design-for-manufacturing expertise, controlled-environment production, rapid functional prototyping, regulatory guidance and scalable injection molding components.

The Power of Early Integrated Partnerships

For many medical device companies, the most significant delays occur before the device enters manufacturing. Teams often invest time and money into prototypes, only to discover that the:

- Design cannot be produced repeatably
- Materials won't withstand sterilization
- Quality system documentation is incomplete

Engagement with an integrated development-minded manufacturing partner fundamentally changes this trajectory. From your initial designs, Manar Medical's engineering and manufacturing teams collaborate with product developers to ensure that every choice supports long-term scalability. This includes incorporating DFM considerations and selecting materials appropriate for prototyping and injection molding while planning future tooling strategies.

Move Your Ideas Forward

By unifying prototype iteration support and production planning early, companies accelerate the entire development timeline. Manar Medical offers rapid functional prototyping services that allow teams to:

- Iterate quickly
- Evaluate performance
- Gather user feedback

Prototyping is supported by engineers who understand what will be required not only for testing but also for future injection molding, secondary services, assembly and sterilization. Each prototype becomes a steppingstone so that when the device is ready for tooling, the transition is seamless and documented.

Streamlined Verification and Validation

As the product introduction process matures, Manar Medical supports workflows that align with regulatory expectations.



Accelerate Early-Stage Medical Device Development

Verification and validation activities, including dimensional checks, material testing, simulated use evaluations and environmental conditioning, are guided by experienced teams.

Because these activities occur adjacent to manufacturing, documentation is more complete, testing is more representative and process development begins earlier. Innovators gain the benefit of a development partner who understands how each decision affects downstream manufacturing, quality and regulatory submissions.

Injection Molding Expertise

When it's time to move from prototypes to high-quality samples and pilot production, product developers rely on Manar Medical's experience in injection molding medical devices. The team supports progressive tooling, from prototype and bridge tools to full production molds, ensuring that investments match the company's stage and market traction.

Scientific molding practices, controlled-environment assembly and robust quality systems give engineers and supply chain managers confidence that early runs will meet performance expectations and support clinical builds, verification testing and regulatory submissions. As products scale, Manar Medical's multi-facility manufacturing provides the capacity and efficiency required for commercial production.

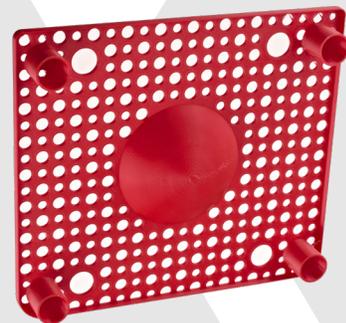
Capital-Efficient

Most emerging medical device companies don't have access to cleanrooms, specialized equipment or the quality systems required for compliant development. Manar Medical solves this through shared infrastructure, controlled-environment manufacturing spaces and a pay-as-you-go approach that conserves capital during the earliest, most fragile phases of development.

This allows startups and OEMs to:

- Avoid premature investment in expensive facilities
- Access expertise without adding a full-time headcount
- Move from low-volume builds to scalable production
- Focus resources on innovation rather than infrastructure

By reducing overhead and integrating collaborative engineering support and manufacturing into one environment, Manar Medical provides OEMs with a faster path to commercialization.



Let's get started and improve your speed to market.

Contact Manar Medical today to begin your conversation and move your innovation forward with confidence.