



Where medical devices come to life.

Prototyping and Development



Prototyping and development services that get your medical devices to market sooner — and smarter

As a total solutions provider, Tegra Medical provides dedicated resources for prototyping, development and pilot production of new products.

Our prototyping headquarters, the GENESIS Tech Center, is located within our Franklin facility in a dedicated 18,000-sq.ft. space. This product-launching concept has been extended to all four company locations to provide fast prototyping and pilot production along with optimized design for manufacturability and assembly closer to our customers.

QUICK TURNAROUND PROTOTYPING FOR RAPID RESULTS

When you've got a design for your medical device in hand, you don't want to be delayed by a contract manufacturer's inability to iterate prototypes quickly. Tegra Medical's prototyping and development services are all about speed — manufacturing your prototypes to spec so you can get them into the lab or clinical trials and ultimately to market sooner.

We use the same type of manufacturing equipment as our lean production environment. So once your design is frozen and the manufacturing process has been established, the scale-up for your commercial launch is seamless.

REDUCE COSTS AND INCREASE QUALITY WITH DESIGN FOR MANUFACTURABILITY AND ASSEMBLY

You're feeling good about your medical device design, but you've got questions. Is it manufacturable? Can you achieve the target cost your sales and marketing team is demanding? We'll help you find the answers.

The best time to take cost out of a product is during the design stages. We can help you quickly assess different approaches and settle on the best solution to meet your project needs. And when the design is frozen and ready for production, we'll handle all the qualifications and validations. We use SolidWorks®, AutoCAD®, MiniTab® and Microsoft® Project to support your programs, and have a machine shop with a skilled staff of process development engineers and highly-experienced technicians.

Design for Manufacturability and Assembly (DFMA) reduces cost, increases quality and shortens the development cycle of your medical device. Together, we can explore alternatives in processes and materials, and immediately see the cost impact.



COMPLETE PROJECT MANAGEMENT

Our experienced project managers provide a single point of contact for your team to move through design iterations smoothly and efficiently. And as your design advances, we can support your quality system requirements with process failure mode and effects analysis (FMEA), Design of Experiments and process control plans.

ACCELERATE TIME-TO-MARKET WITH PILOT PRODUCTION

Our services include a broad range of manufacturing capabilities for metals and plastics under one roof and a dedicated staff of machinists, technicians and operators. Our pilot production uses the same machining capabilities as our regular production facilities, including:

- Laser cutting, welding, drilling, engraving
- Wire and sinker EDM
- Precision grinding
- CNC milling and turning
- 3D printing
- Polymer and metal manufacturing
- Forming, swaging, bending, flaring, coining
- Nitinol shape setting
- Cleaning, finishing, passivation and electropolishing
- Cleanroom assembly and testing in Dartmouth and Costa Rica; white room in Franklin

We can help you meet tough deadlines for product or process evaluations, one-off product builds and prototypes.

We can pilot-produce single-level components or finished assemblies. We offer complete documentation and traceability as required, but also have the flexibility to adapt to your product and schedule requirements.

Tegra Medical® offers an array of prototyping and manufacturing services with 200,000 sq. ft. of manufacturing in four locations. We use the latest in process controls to give you peace of mind and the highest quality product. Call us to find out how we can help you be more successful.

