



Making it easier to get your  
**NITINOL**  
products to patients

**NITINOL**  
**PROCESSING**  
CENTER OF  
EXCELLENCE

### Nitinol Core Competencies

- **Recognized thought leadership**  
Multiple technical presentations at **SMST 2026**, sharing practical insights and new learning with the Nitinol community
- **Deep technical bench**  
PhD level expertise on staff spanning **Materials Science to Chemical Engineering**, supporting alloy/process understanding and problem solving
- **Scalable, repeatable processing:**  
Multiple automated Nitinol processing stations enabling tighter process control, higher throughput, and improved consistency
- **Standards influence & credibility:**  
Active participation on **ASTM committees** shaping **Nitinol test method standards** and best practices
- **End-to-end Nitinol expertise:**  
Capability to connect **process parameters** → **material response** → **test outcomes**, accelerating development and reducing variability

### Vertically Integrated Contract Manufacturing

### Our Center of Excellence for Nitinol Processing includes:

Laser Processing • Stamping  
Machining • Cleaning  
Shape Setting • Microblasting  
Overmolding • Electropolishing  
Metrology & Testing



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## Nitinol Processing

CreteX Medical offers industry-leading Nitinol (Nickel-Titanium) processing through its dedicated Center of Excellence in Dassel, MN. Process development, automation, and production execution are seamlessly aligned to support the commercialization of complex medical device components.

With deep expertise in shape memory alloys, we provide a comprehensive suite of manufacturing services designed to meet the most demanding geometries and performance requirements. Our advanced capabilities enable rapid development and reliable production, helping you bring innovative medical devices to market faster.

From early-stage prototyping to full-scale manufacturing, our team supports every phase with dedicated resources and rigorous property testing to ensure optimal performance and quality.

## Capabilities & Technologies Include:

- Dedicated rapid prototyping resources
- Femtosecond and IR laser cutting (tube and flat)
- Stamping and machining
- Shape setting and Af tuning
- Electropolishing (wet and dry)
- Microblasting, tumbling, and etching
- Cleaning and passivation
- Swaging, crimping, and over-molding
- Assembly and secondary processing
- Measurement and characterization

Whether you're developing next-generation implants or complex minimally invasive devices, CreteX Medical delivers the precision, scalability, and expertise required to succeed.

