

# RESONETICS

## THE EXPERTS IN NITINOL PROCESSING & MANUFACTURING SOLUTIONS



### NITINOL CAPABILITIES

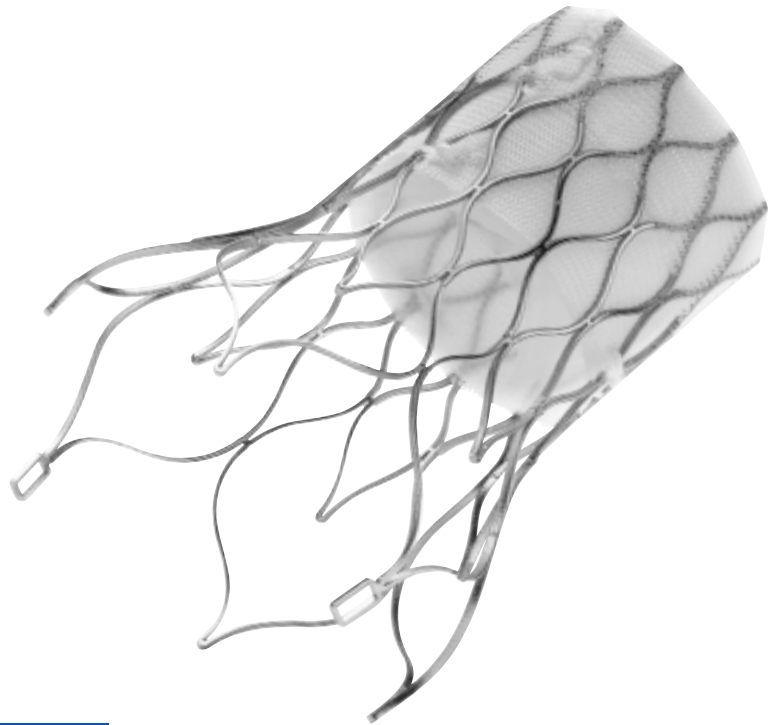
- Laser Cutting
- Shape Setting
- Electropolishing
- Braiding
- Milling
- EDM
- Microjet Cutting
- Welding
- Centerless Grinding
- Laser Ablation

Nitinol, a nickel-titanium (NiTi) alloy, has unique superelastic and shape-memory capabilities essential to medical devices and technologies.

Our expertise in highspeed femtosecond laser cutting, laser ablation, centerless grinding, shape setting, electropolishing, and braiding enables medtech innovators to leverage this revolutionary material with comprehensive processing and manufacturing solutions.

Our nitinol processing capabilities, dedicated resources, and unmatched expertise help accelerate time-to-market for groundbreaking devices that change and improve lives.

# NITINOL CAPABILITIES



## Laser Cutting

We use ultrafast femtosecond laser systems to produce nitinol devices faster that require less post processing.

Standard Cutting Specifications:

min | max

Feature Sizes 0.012 mm | 10 mm

Wall Thickness 0.012 mm | 1.5 mm

Outside Diameter 0.0125 mm | 20 mm

## Shape Setting

We use our in-house precision tooling center to make fixtures to produce complex nitinol shapes.



Standard Shape Setting Specifications:

min | max

Feature Sizes 0.012 mm | 10 mm

Material Thickness 0.012 mm | 0.5 mm

Material Diameter 0.125 mm | 10 mm



## Electropolishing

We lead industry standards in quality and repeatability no matter the shape or complexity of your nitinol parts for flawless surface finishing.

Standard Electropolishing Specifications:

min | max

Feature Sizes 0.012 mm | 10 mm

Wall Thickness 0.012 mm | 0.1 mm

Outside Diameter 0.0125 mm | 10 mm

## Laser Ablation

We have developed proprietary processes that use high-speed lasers to 3D machine micro-scale components and devices from a solid metal material. These processes minimize

heat input, reduce thermal damage, and can be done in one setup, reducing handling and cost.



# RESONETICS

nitinol@resonetics.com | www.resonetics.com