



[www.mortonbowen.com](http://www.mortonbowen.com)

**Morton Bowen** is a supplier of precision components for the medical device industry. We provide excellent customer service, product quality, and superior one-on-one relationships to achieve your product development and design goals at an accelerated rate with our rapid turn-around times, prototype & production capacity, and superior depth of knowledge – especially in the **Medical Device** and **Contract Manufacturing** Industry. We will work directly with your R&D and Manufacturing Engineers to provide a suitable, stable, controlled, and developed process. Morton Bowen is **ISO Compliant** with all of its processes, and equipped with the latest in conventional and proprietary manufacturing processes and with employees intensely focused on producing high quality components for demanding industries, we are ready to service your needs.

Our core capabilities lie within the electrochemical and surface treatment processing arenas for **NiTiNOL**, **Stainless Steels** and many other **Medical Grade Alloys**. With these capabilities we are able to offer a large range of processing:

- Wire diameters starting from **0.0010" (0,025 mm)**
- Tubing OD ranging from as small as **0.0040" (0,100 mm)**
- Surface finishes as low as **4 RMS**

#### **NiTiNOL – Oxide Removal, Shape & Heat Set, Electrochemical Polishing & Electroplating, & Specialized Alloys**

- **Oxide Removal** – using state of the art electrochemical and chemical processing capabilities, Morton Bowen is able to provide excellent surface cleanliness, polishing, etching and surface preparation to your product, which allows the reduction of surface stress concentrators, blemishes, crack propagation, improved fatigue life/performance, and enhanced surface finish appearance of your product
- **Shape & Heat Setting** – shape setting and heat setting of NiTi can be provided for both superelastic and shape-memory in a variety of sizes and shapes, utilizing manufactured custom fixtures
- **Electrochemical Polishing & Electroplating** – providing a treatment for electropolishing for NiTi wire & tube that has negligible hydrogen embrittlement absorption, and fully or selectively electroplating for many wire and tube shapes and sizes

#### **Burr-Free Cutting of Wire & Tube**

Morton Bowen specializes in burr-free cutting of small diameter wire and tubing. We provide products to all industries that demands square, burr-free, tight tolerance, and rapid turn of product with some of the fastest lead-times in the industry. We can also offer custom angle-cut and beveled ends, tumbling, passivation, and with certifications.

Our proprietary technology produces truly burr-free wire and tube cutting from 0.0150" to 120.000" lengths, with the industry shortest lead-times, and not only in Stainless Steel but also in most other metals in wire and tubing.

#### **Capabilities and Tolerances**

- Wire and tube diameters: 0.004" to 0.250"
- Lengths: 0.0150" to 120.000"
- All Shapes: round, oval, square, custom, etc.
- Length Tolerances: from +/- 0.0001"
- Rapid Lead-Times

## Electro-Processing & Surface Treatments of Medical Grade Stainless Steels

- **Electropolishing** – smooth or matte surfaces can be produced per your specifications
- **Electropointing** – an ultra sharp point or a simple edge-break can be produced depending upon your application
- **Electroplating** – noble metals such as Gold, Silver, Platinum, Palladium, Nickel-Strike, etc. can be fully or selectively applied
- **Tube Edging** – a razor-sharp edge or a radius surface can be produced
- **Coil Sharpening** – sharpened coil tips for ultra sharp, or radius ends
- **Surface Preparation & Cleaning** – a simple electropolishing or etching to provide an ultra clean surface for your applications
- **Passivation** – chemical surface treatments for either Citric or Nitric acids & to MIL Spec or ASTM Standards with Certifications

## Wire & Tube Fabrication, Small Prototype or Full Production Quantities, and Supply Chain Management

Morton Bowen is your solution for wire and tube fabrication, with wire ranges as small as 0.0010" (0,025 mm) and tubing as small as 0.0040" OD (36 Ga) we can offer many capabilities for processing your products:

- **Bending and Forming** – simple bends or intricate features can be formed with proprietary designed systems
- **Media/Bead Blasting** – surface roughening can be applied with a range of media to suit your application requirements
- **Component Assembly** – precision crimping, soldering, other joining methods, complete or sub assembly processes
- **Specialized Coatings** – a wide range of products from PTFE, Polyimide, Polyesterimide, Hydrophilic Coatings, etc.

We are continuously investing in new capabilities to provide a single source solution to customers. Even though some capabilities are currently not present at Morton Bowen, we have project teams that have partnered with other key and critical manufacturing suppliers to provide a complete solution to your project requirements and a seamless supply chain management for: Swiss-Machining, Micro-Machining, Micro-Grinding, EDM, Laser Cutting & Welding, etc.

## Project & Engineered Solutions

Morton Bowen will work with you to resolve your biggest challenges and provide solutions through engineering, project management, assembly, and contract manufacturing. These include:

- **Design Assistance**
- **Design Verification**
- **Quality Systems**
- **Prototypes**
- **Validation**
- **Manufacturing Process**
- **Sub & Complete Assemblies**
- **Assembly Processes**
- **and many more...**

\*\*\*\*\*

Please feel free to contact us for assistance with all of your projects!

### **Morton Bowen, Inc.**

3101 Industrial Lane Unit C, Broomfield, CO 80020 USA

303.325.5887 **Phone** 866.458.2127 **Toll Free** 303.327.7052 **Fax**  
[sales@mortonbowen.com](mailto:sales@mortonbowen.com)