



Engineered tubing that performs under pressure.

Zeman manufactures high-precision, small-diameter tubing for surgical tools, medical devices, and patient care systems. With deep expertise in stainless steel and ISO 13485-certified processes, we deliver clean, durable components built for the demands of clinical use and tight regulatory oversight.

Engineered Tubing for Medical & Dental Applications

We build more than parts. We build reliability into every bend, cut, and joint. Our team helps translate complex designs into consistent, high-performance tubing from initial concepts to production runs.

We thrive on the kinds of technical challenges others shy away from. Whether it's a first run or a long-term production partner you need, we help turn complexity into something you can count on.

Our Mission: To Make Things Better

Our success starts with our people. By fostering a workplace that values craftsmanship, mastery, and opportunity, we equip our team to solve complex challenges, deliver innovative solutions, and drive continuous improvement.



Capabilities Breakdown

Trusted by medical OEMs to deliver performance, consistency, and care.

MATERIALS

- 304, 316, 321, 347, 17-7, 21-6-9 Stainless Steel
- Other biocompatible alloys

CERTIFICATIONS

- ISO 9001:2015
- ISO 13485:2016
- ASTM, AMS, and customer-specified standards

FABRICATION METHODS

- CNC Tube Bending
- CNC Tube Cutting
- Tube Joining & Assembly
- End Forming & Shaping
- CNC Tube Machining
- Tube Feature Fabrication
- Tube Finishing & Coating
- Tube Inspection

APPLICATIONS

- Suction Tubes (Yankauer, Frazier styles)
- Cannulas
- Surgical Knife & Bayonet Tubing
- Medical Equipment Infrastructure (Bed Frames, IV Stands, Lighting Arms)
- Fine-Gauge Tubing for Needles and Delivery Systems
- Medical Supply Carts & Cabinets
- Ultrasound Devices
- Maternal & Infant-care Equipment

Design for manufacturability.

Medical parts are only as good as their quality. We partner directly with your engineering team to improve geometry, ensure smooth transitions, and eliminate production risks before they become problems. Our collaborative process leads to better performance, cleaner assemblies, and faster approvals.

From early design input to prototype testing and beyond, we act as an extension of your team to improve outcomes and avoid costly surprises down the line.



Definition

Define the part's function and fit in assembly.

Product

Turn the part's requirements into manufacturing-ready designs.

Process

Align teams on plans, tooling, quality, and cost.

Validation

Confirm specs and prep for production scale-up.

Engineered tubing that performs under pressure.

With an in-house CNC shop and fully equipped fabrication floor, we have the control and agility to respond to shifting requirements without slowing you down. Whether you're building a first-round prototype or ramping up to full production, we deliver tight tolerances, clean finishes, and components ready for clinical use.

As designs evolve and assembly needs shift, we adapt seamlessly — avoiding delays

and unnecessary complexity. Every part we produce is fully documented and traceable, creating a clear foundation for future iterations and continuous design improvement, all while maintaining long-term compliance and audit readiness.

At Zeman, we treat every part like the world depends on it — because in medical manufacturing, it does. Our team brings the precision, care, and future-focused accountability your products need to perform today and evolve for tomorrow.



ZEMAN MANUFACTURING COMPANY

zemanmfg.com

Lisle, IL