

**Banner Medical**  
Providing superior  
medical grade  
materials and  
value-added  
services.



[www.banner-medical.com](http://www.banner-medical.com)



## About Us

Since 2008, Banner Medical has provided the finest materials and value-added services to the medical device, implant and instrument industries. We have extensive experience in processing medical grade materials and components. We create value by reducing risk and optimizing supply chain efficiency for our customers. Banner Medical proudly serves more than 260 OEMs, Contract Manufacturers and Precision Machine Shops that deliver outstanding products and services to the medical industry.



## Material Accessibility and Extensive Inventory

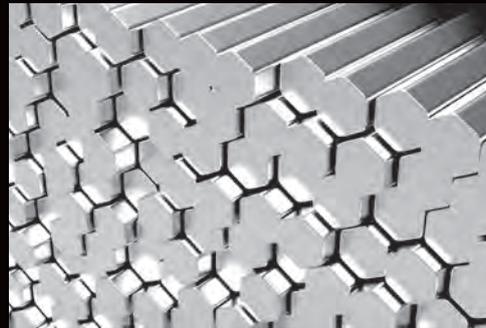
Our strategic partnerships give us access to a broad selection of materials. We carry over one million pounds of medical grade product in our inventory, including raw material in outside diameters of .032" through 6.00". A variety of medical grades and sizes are always on hand to meet our customers' needs. Regularly stocked materials include, but are not limited to:

- Stainless: 303, 304, 316LVM Implant, 420, 440A, 455, 465, 17-4H 900, and more
- Cobalt Chrome: F1537, L605, MP35N®
- Titanium: 6AL-4V ELI, CP Grades 1 through 4
- Aluminum: 6061, 7075, 2024 and other grades
- Cannulated Stainless: 455, 465
- Nitinol Tubing

### BANNER MEDICAL INVENTORY CAROL STREAM, IL

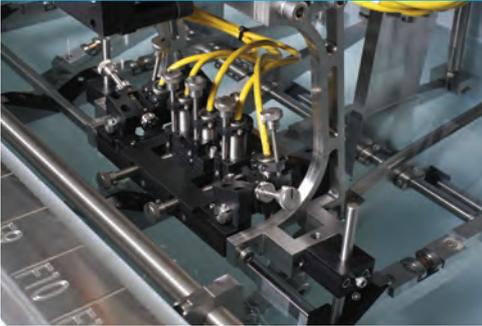


- X15TN™
- Shapes: rounds, flats, and cut-to-length available upon request



## Value-Added Services

### ULTRASONIC IMMERSION TESTING



Banner Medical's value-added services can improve efficiency, increase throughput, cut down on scrap and reduce risk for our customers. Our services include, but are not limited to:

- In-house Ultrasonic Testing
- Line Marking
- Cut-to-Length
- Bar End Chamfering
- Near-Net Shape Components & Implants
- Heat Treating and Stress Relieving
- Material Composition Confirmation
- Surface Treatments: Anodizing, Hard Chrome Plating, Passivation

### LINE MARKING



### BAR END CHAMFERING



### HEAT TREATING



## Superior Quality Systems

Our quality management system sets the industry standard, and is tailored to meet the stringent requirements of equipment and process validation (IQ, OQ, and PQ) per FDA standard protocol. Banner Medical has also developed proprietary manufacturing software and administrative systems to mitigate risk and ensure materials are defect-free. System elements include:

- ISO 13485 Certified
- FDA 21 CFR part 820 compliant
- XRF inspection of incoming and shipped material to assure correct alloy and composition
- Ultrasonic Testing to the latest ASTM, ASM and other OEM specifications to assure defect-free material



INSPECTION UTILIZING THE LATEST IN DIMENSIONAL INSPECTION AND SURFACE FINISH MEASUREMENT TECHNOLOGY.



XRF TECHNOLOGY DETERMINES MATERIAL COMPOSITION VERSUS MILL CERTIFICATION TO ASSURE THE RIGHT MATERIAL IS DELIVERED EVERY TIME.



THE LATEST IN ULTRASONIC TESTING TECHNOLOGY ASSURES DEFECT FREE MATERIAL IS USED PRIOR TO MACHINING.

## Manufacturing Capability

Banner Medical has manufacturing capacity, equipment, and quality systems dedicated to providing the finest centerless ground materials and value-added services required by the medical device industry. Our state-of-the-art facility contains the industry's most advanced processing and non-destructive testing equipment. We can process various grades, sizes, and shapes of materials including; flats, plate, sheet, and bar from .032" to 6.00" O.D. Banner can routinely achieve dimensional specifications on ground and polished material to the following specifications:

- Surface Finish to 4 micro inches
- Outside Diameter Tolerance of +/- .0001"
- Roundness Tolerance .00005"
- Straightness of .002" TIR



## Supply Chain Management

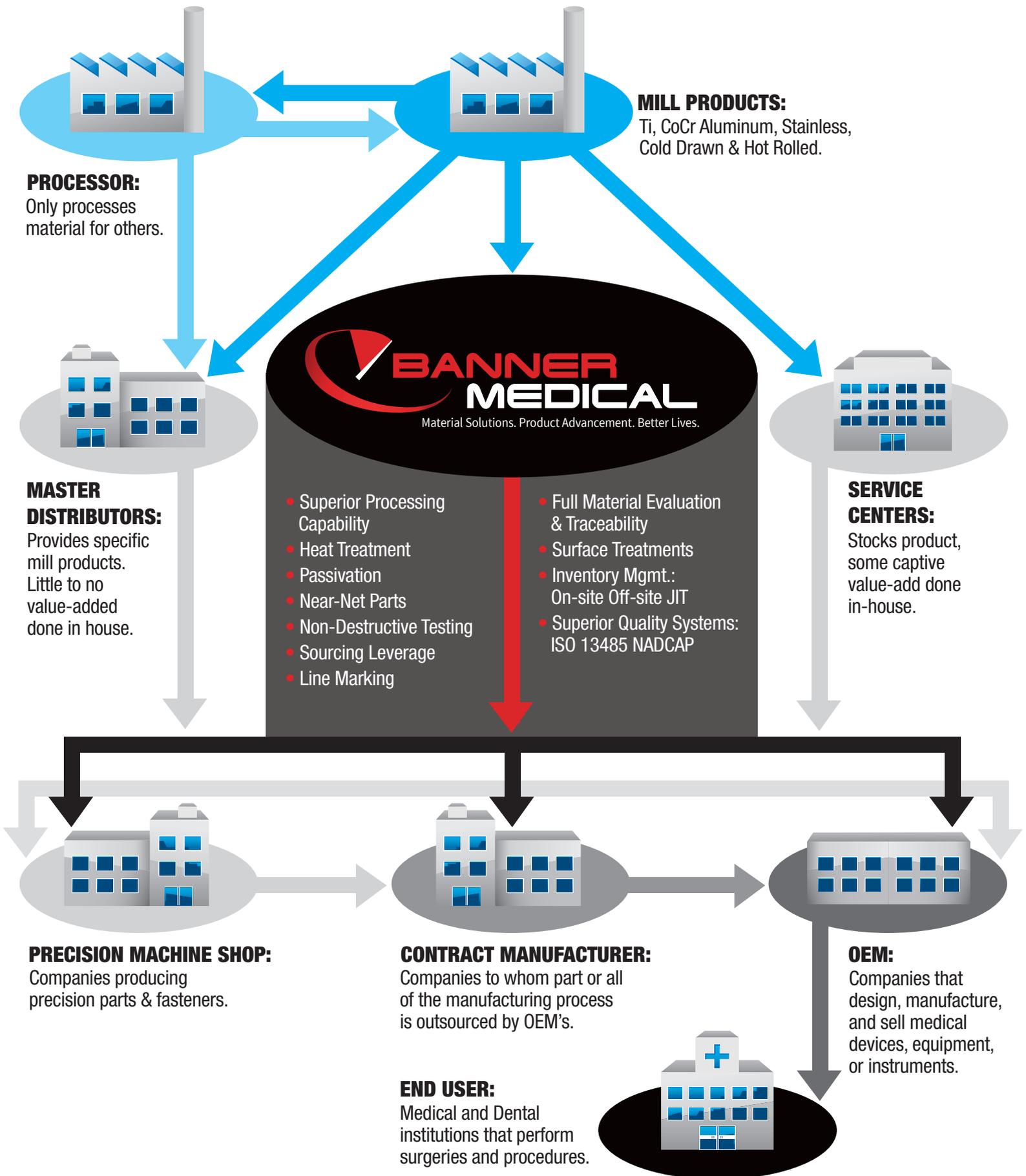
We understand the special requirements and needs of our customers serving the medical device industry. Our unique position in the supply chain and our value-added services help OEMs, Contract Manufacturers and Precision Machine Shops simplify their businesses and reduce costs. Our customers have had success in reducing their vendor base and inventory levels, shortening lead times, eliminating in-house machining, and increasing productivity. Banner Medical's material supply chain services include:

- On-site materials management
- Banner Medical stocked inventory management (JIT)
- Consolidated freight (bundling)
- Logistics solutions
- Material selection assistance
- Material evaluation services
- Complete material traceability and records management

## Value-Added Processor

As a Value-Added Processor, Banner's unique services and options reduce risk and simplify the procurement of medical grade material. Our extensive manufacturing capability, QRM and quality management system result in dimensionally correct products, within specification, every time and on time. Our relationships with mill producers, both domestic and international, allow us to provide competitive pricing and flexibility not always offered by the industry's Service Centers or Master Distributors. The supply chain map explains our role and contributions to the medical device industry.

# Supply Chain Mapping: Banner Medical's Position as a Value-Added Processor



## Markets Served

Banner Medical is widely recognized as a strategic partner by many OEMs, Contract Manufacturers and Precision Machine Shops in the medical device industry. Our commitment to quality, along with our manufacturing and sourcing capabilities, adds value by reducing supply chain complexity which minimizes risk and provides reliable and on-time delivery.

Banner Medical is a strategic business unit within Banner Service Corporation. We bring more than 54 years of metal processing to the medical device industry. Our customers count on high quality materials that allow for maximum productivity rates through superior straightness, roundness, and diameter tolerance. CNC Swiss machining centers are evolving, and requirements for tighter tolerance materials are becoming increasingly important.



Banner Medical supplies materials that are frequently used in the following medical device market segments and applications:

- Orthopedic: Knee, Hip, and Fracture Implants
- Spine: Fusion, Motion Preservation & Dynamic Stabilization, Artificial Disc, Facet Repair/Replacement
- Extremities: Shoulder, Elbow, Finger, Foot, and Toe
- Surgical Instruments: Orthopedic, Spine, Dental
- Dental: Implants, Instrument Retipping



## Product Realization

Our consultation services are designed to help customers with product development and FDA 510K approval. Banner Medical can also assist with material selection, process validation, or supply chain management. Contact us to find out how we can help your company provide the best products on-time while minimizing risk. Services include, but are not limited to:

- QMS Compliance
- Regulatory Compliance
- Documentation/Traceability
- IQ, OQ, PQ Process Validation



## QRM - Premier Customer Service

Quick Response Manufacturing (QRM) is a University of Wisconsin-Madison-based program that helps companies with low-volume, high variability, or customer-engineered products lower their lead times in the marketplace. Since adopting QRM in January 2014, Banner Medical has reduced lead times for quoting, order entry, production, and shipping by over 50%. We pride ourselves on premier customer service and a quick response to our customers' needs. Please contact us for your medical grade material and value-added requirements.

## Upcoming Banner Facility

Banner Medical is pleased to announce the opening of our third ISO 13485 certified facility. This state-of-the-art material processing center will be located in Warsaw, IN, and is specifically designed to deliver the broadest array of medical grade materials and value-added services to the medical device industry. This Greenfield facility will be in operation in 2016 and will serve regional, national and international customers which provide implantable products and instruments to the orthopedic, spine, dental, and extremities markets.



Banner Medical has one of the most advanced quality management systems in the medical device industry. We pride ourselves on offering the highest quality medical grade materials and a broad array of value-added services. In turn, our customers can count on single source supply and superior risk mitigation.



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