

# MEDICAL DEVICE MANUFACTURING

WEST COAST PACIFIC NORTHWEST SOUTHWEST MIDWEST ROCKYMOUNTAINS SOUTHEAST  
MEXICO CENTRALAMERICA CARIBBEAN IRELAND UK EUROPE MIDDLEEAST



**TEKNIPLEX HEALTHCARE** provides interventional device solutions including complex custom extrusions, nitinol implants, polymer and metal components, molding, assembly, and catheters and finished medical devices. They also offer highly skilled sewing of medical textiles onto metal frames for stents, stent grafts, and transcatheter valves.



**APPLIED PLASTICS** provides engineering-driven coating solutions for catheter manufacturing. They develop application-specific coating solutions for mandrels, pull wires, and guidewires, delivering optimized lubricity, durability, dimensional control, and quality to support reliable performance from R&D through scaled production.



**COBALT POLYMERS** offers revolutionary thin-wall Pebax and Polyolefin Heat Shrink Tubing in a variety of durometers and sizes. It is intended to stay on the device and replace traditional reflow processing. Many in-stock configurations are available in addition to custom colors and sizes.



**WYTECH** and its affiliate company, Mountain Manufacturing, have been committed for 50 years to earning their position as the preferred development and manufacturing partner for mandrels, core wires, heat set tooling, and micro-machined components for medical device OEMs and contract manufacturers.



**VANGUARD PRODUCTS CORPORATION** provides prototyping and production of elastomeric molded components, extrusions, gaskets, and EMI/RFI shielding. Specializing in conversion of molded elastomer components to extruded and cut-to-length geometries.

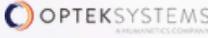


**FREUDENBERG MEDICAL** provides precision metal components and coating solutions with DSA. Technologies include hypotubes, laser-cut tubing, and pull-wire assemblies for interventional catheters, plus custom and volume drug-device coatings—drug-eluting stents, drug-coated balloons, and functional hydrophilic coatings—for advanced medical device applications.



We offer coatings for increased lubricity, drug loading, surface hardness, and improved dielectric strength.



	<p>The trusted, single source of needle and suture material solutions to the world's medical device companies. Core products include high-strength suture and needle attachment along with custom packaging and complex suture assembly.</p>		<p>Provides laser micromachining services with a range of laser wavelengths for capabilities including precision micro hole drilling and ablation in polymer applications such as microtubing and balloons. Facilities in the US, Europe, and China.</p>
	<p>Offers standard and custom guidewires along with complex wire forming. Regulatory approvals are available for most standard configurations. Offering custom springs including design assistance.</p>		<p>Provides component design and manufacturing for medical device developers. Specializing in tubing modifications, 3D printing, molding, and engineering services. Quick lead times for innovation.</p>
	<p>Specializes in polymer and metallic coil and braid fabrication leveraging a large inventory of materials to expedite design and development of structures used for catheter reinforcement, implants, and retrieval baskets.</p>		<p>Focused on micro molding, precision injection molding, and value-added assembly. Vertically integrated with in-house tooling fabrication. Specialized capability for high-temperature engineered plastics such as PEEK.</p>
	<p>Processes sapphire windows, hard material components, and custom vision tubing assemblies for precision applications such as robotic surgery and endoscopy. Online store offers in-stock sapphire window components and ruby materials.</p>		<p>Offers contract printing services utilizing an ISO 9001 quality system and in-house tooling. Multi-color and 360 degree printing can be applied to tubing, handles, and finished devices.</p>
	<p>Provides polymeric coverings and coatings for frame-based devices for MIS applications; ultrathin-wall, flexible microlayer tubes for neurovascular microcatheters; and large-diameter delivery systems for structural heart devices.</p>		<p>Offers a long track record of supplying superior-quality silicone components. Molding includes transfer and compression molding, blow molding, and LIM. Extrusions include single lumen, multi-lumen, and profiles.</p>
	<p>Provides heat-set tooling for nitinol implants, precision machining of complex mandrels and other specialty components, and Halar® coating, which offers excellent chemical, abrasion, and electrical resistance.</p>		<p>Specializes in semi-finished metallic components. Tubing, wire, and sheet are available in nitinol, stainless steel, cobalt chrome, and titanium. Also offering custom alloy development, inclusion-free nitinol, clad materials, hone-drilled surface finishes, and precision tolerances.</p>



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