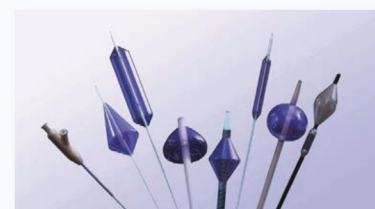


# MEDICAL DEVICE MANUFACTURING

SAN FRANCISCO SILICON VALLEY IRVINE LOS ANGELES SAN DIEGO DALLAS MINNEAPOLIS SALT LAKE CITY SEATTLE CHARLOTTE TAMPA MIAMI  
IRELAND COSTA RICA PUERTO RICO MEXICO TIJUANA ISRAEL VANCOUVER



**NORDSON MEDICAL** is vertically integrated to supply delivery system components, sub-assemblies, and finished devices. PET and FEP Heat Shrink Tubing, balloons, fluoropolymer, liners, polyimide, extrusions, and braid reinforced tubing are available. Focused on complex catheters, device manufacturing, and design services.



**APPLIED PLASTICS** offers PTFE Natural® lubricious coatings for stainless steel and nitinol mandrels, tubing and wire. Typical uses include processing mandrels and delivery system components. PTFE Natural® mandrels outlast traditional coated mandrels, reducing costs and improving yields. Online store offers quick turn R&D solutions.



**VANGUARD PRODUCTS** 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.



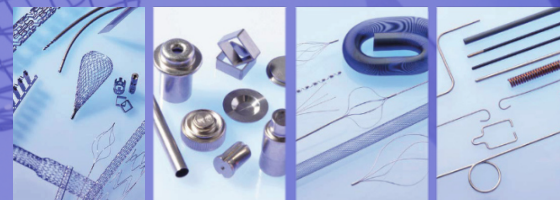
**COBALT POLYMERS** Revolutionary thin walled Pebax and Polyolefin Heat Shrink Tubing in a variety of durometers and sizes. Intended to stay on the device and replace traditional reflow processing. Custom colors and sizes in addition to an extensive list of configurations in stock.



**WYTECH** for nearly 50 years, Wytech and its affiliate company, Mountain Manufacturing, have been committed 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.



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



Manufacturing of precision micro-components, complex tubular components and sub-assemblies. Offering DFM, prototyping, and production solutions including laser cutting, laser welding, EDM, and 3-D metal printing.



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.



Has been the trusted, single source of needle and suture materials solution to the world's medical device companies. Our core products include high strength suture and needle attachment along with custom packaging and complex suture assembly.



Provides component design & manufacturing for medical device developers. Specializing in tubing modifications, 3D printing, molding, & engineering services. Quick lead times for innovation.



Standard and custom guide-wires along with complex wire forming. Regulatory approvals are available for most standard configurations. Offering custom springs including design assistance.



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.



Polymer and metallic coil and braid fabrication. An assortment of raw materials are used to fabricate structures used for catheter reinforcement, implants, and retrieval baskets.



Offers contract printing services utilizing an ISO 13485 quality system and in-house tooling. Multi-color and 360 degree printing can be applied to tubing, handles, and finished devices.



Specializing in synthetic sapphire components for use in applications that require scratch resistant, optically clear material. Both simple and complex geometry can be accomplished. Additional services include coatings and metallization.



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.



Specializes in complex electromechanical and fluidic "box builds" leveraging in-house, multidisciplinary expertise in mechanical engineering, electrical engineering, fluidics, and sensors. In-house QA/RA expertise available.



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