Medical Main Street is a network of world-renowned hospital systems, universities and life science companies – forming a globally-recognized hub of innovation.

Medical Main Street business services include:

- Introducing you to experts who can guide you from concept to prototype and through regulatory requirements to FDA approval and commercialization.

- Training and networking events for you to connect with potential partners, customers and suppliers.

- Helping you get to the right people and the right funding at the right time.

- Connecting you to plastics, metals, electronics and other manufacturers who can help inventors with design, prototype, production, sterilization and distribution needs.

- Providing access to Oakland County’s Department of Health & Human Services, one of the nation’s leading public health institutions.

If you are interested in more information or expanding in Oakland County, contact: Info@MedicalMainStreet.com (248) 858-0978

Oakland County
2100 Pontiac Lake Road – Building 41W
Waterford, Michigan 48328 | USA

We want to help you succeed!
A Message from L. Brooks Patterson
Oakland County Executive

Oakland County, Michigan drives the Medical Main Street program for the region, to connect and spotlight our vibrant life science and manufacturing industries. Companies can find the partners and talent that they need to do everything — research, design, test, engineer or manufacture. If you can imagine it, we can make it here. Innovation is in this region’s DNA.

The Michigan Manufacturing Technology Center has helped us compile this medical device manufacturing directory to give you a sample of what is available, providing you with instant access to the Michigan-based supply chain.

With more than 39,000 businesses, Oakland County is the economic engine for Michigan’s economy, and our diverse assets have attracted some 1,100 international firms from 39 countries to locate here. Few locations in the world can match the resources we can offer companies and their employees.

I urge you to contact our Medical Main Street team to learn how Oakland County can help your business grow in Michigan.
## Michigan Medical Device Manufacturers

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Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
# Michigan Medical Device Manufacturers (cont.)

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Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
## Michigan Medical Device Manufacturers (cont.)

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### 3 Dimensional Services

**3Dimensional.com**

Materials include all grades of aluminum and steel, rubber, urethane, sand, wood and plaster. 100 CNC machining centers, mills, lathes, multi-axis machines, vertical and horizontal, gun drill, boring mill, stamping, laser processing, hydroforming, tube bending and waterjet cutting. Rapid prototyping includes stereolithography (SLA), fused deposition modeling (FDM), selective laser sintering (SLS) and rapid injection molding (RIM).

[Rochester Hills](Oakland County Business)

### Action Fabricators

**ActionFab.com**

Converts and die-cuts custom-made tapes, plastic, rubber, non-adhesive-backed foams and specialty materials for a wide range of applications. Prototyping, slitting, laminating, die-cutting and assembly. Materials include 3M product, foams, rubber and plastic such as polyethylene and neoprene, and specialty materials like carbon fiber, multiaxial and composites.

[Grand Rapids](Oakland County Business)

### Adco Circuits

**AdcoCircuits.com**

Design, new product introduction, rapid prototyping, surface mount printed circuit board assembly, box build/system integration, test and environmental stress screening, conformal coating, automated optical inspection, selective soldering, supply chain and order fulfillment.

[Rochester Hills](Oakland County Business)

### Advance Turning & Manufacturing

**AdvanceTurning.com**

Processes include: OD/ID grinding, gun drilling, gear and spline manufacturing, milling, turning, Swiss machining, EDM fabrication, milling spindle and multi-axis machining. Materials include: Aluminum, titanium, high nickel alloys like inconel, monel, hastelloy, stainless steel, plastics, forgings, castings, stampings and extrusions.

[Jackson](Oakland County Business)
Aim Plastics

AimPlastics.com

Tool design in 3D CAD and built using its proprietary Prototype Plus™ processing, two-shot molding, insert and over molding, cleanroom molding, scientific molding and light assembly. Value added services includes pad printing, secondary machining, part welding, heat staking, solvent bonding, sonic welding, specialized packaging, painting, plating and EMI-RFI shielding.

Clinton Township

Airman Inc.

AirmanInc.com


Brighton

Ajax Spring & Manufacturing

AjaxSpring.com

Slide forming machinery, Heliarc welding, spot welding, heat treating, stress relieve, degreasing, deburring, plating, sharpening, anodizing, stamping, in-die assembly, insertion and tapping. Materials include: low and high carbon steel, brass, copper, beryllium copper, phosphor bronze, aluminum, stainless steel, titanium, nickel titanium and other spring alloy steel.

Madison Heights

Alternative Components LLC

AlternativeComponents.com

Bending, CNC rotary draw or vertical press, end forming, press forming, punching and notching, welding and brazing, assembly and staking. Materials include low carbon steel, high strength low alloy steel, most grades of stainless steel, copper, brass, aluminum, titanium and incoloy.

Warren

Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
Amtech Electrocircuits

AmElectro.com

Circuit board assembly: 0201, fine pitch, BGA, uBGA, through-hole; box build; and mechanical assembly. Production and prototype. Lead-free, RoHS-compliant assembly, wire harness, cable assembly and hot/cold testing. Uses vapor phase reflow to achieve perfect solder joints as well as 3-D automated optical inspection (3D AOI) to ensure quality.

Anticipated Plastics Inc.

AnticipatedPlastics.us

Works with ABS, acetal, nylon, PBT, polycarbonate, polyethylene, PET, polypropylene, PVC and TPE. Injection molding.

Autocam Medical

Autocam-Medical.com

CNC machining and grinding, Swiss turning, cutter grinding, deep-hole gun drilling, laser marking, wire EDM, laser welding, precision saws, assembly, secondary finishing, coating and cleaning.

Avon Broach & Production

AvonBroach.com

Wire EDM, wire cutting, broaching, blind spline tooling, internal pull broach tools and surface broach tooling. Designs and manufactures broach insert holders and workpiece holding fixtures.

Oakland County Business

Troy

Warren

Kentwood

Rochester Hills
B C & F Tool Company

BCF-GunDrilling.com

Machining capabilities include milling, honing, turning, grinding and gundrilling. Materials include stainless steel, tool steels, brass, aluminum and titanium.

Oak Park

Baker Industries

BakerIndustriesInc.com

Materials include aluminum, magnesium, steel, stainless steel, Invar, Delrin, Ultem, polycarb, glass filled materials, nylon, acrylic, PC/ABS, ABS, silicon, fiberboard (low, medium and high density); press brakes, bend, shape, form, weld, boring mills, multi-axis machining, lathes, waterjet cutting, injection mold, compression mold, dual gloss mold-in color, additive manufacturing including Fused Deposition Modeling (FDM) and Direct Metal Laser Sintering (DMLS). Engineering designs tools, molds, fixtures and gages.

Macomb

Barron Industries

Barron-Industries.com

3D Printing via SLA or stereolithography. CNC machining includes grinding, honing, brazing, vertical and horizontal milling systems, turning, MIG and TIG welding, laser engraving, heat treating and painting.

Oxford

Barron Precision Instruments

BPIC.com

Materials include high-carbon stainless steel, Dacron. Proprietary multi-stage honing process.

Grand Blanc
**Becker Metal Works**

*BeckerOrthopedic.com*

Investment castings are made with ceramic or wax casting molds as an alternative to traditional machining. The casted parts are made of ferrous alloys, non-ferrous alloys and various grades of ductile iron. Additional processes include grind, heat treat, straightening and autoclaving.

*St. Clair*

**Becker Orthopedic**

*BeckerOrthopedic.com*

Materials include stainless steel, thermoplastics, copoly, carbon fiber, aluminum, leather, composites, copolymer, polypropylene, low density polyethylene and carbon graphite fibers. Processes include vacuumforming, tapping and finishing.

**Becker Rehabilitation Products**

*BeckerOrthopedic.com*

Products are orthopedic devices, some stitching, some thermoforming of plastic components, machining of metal hinges and supports.

*Port Huron*

**Biopro**

*BioproImplants.com*

CNC machining, milling, turning and grinding. Products include a variety of implants for upper and lower extremities, soft tissue bone screws and cannulated screw systems, memory staples, biologics and surgical instruments.

*Troy*
Britt Manufacturing

BrittMfg.com

Powder injection molding specialist in metal and ceramic injection molding, sintering, coining, machining including grinding and milling, heat treating, coatings including chrome plating and black oxide, and finishing, welding and passivation. Can assist with design through production. Also has micro molding capabilities of parts as small as .0015 grams.

Port Huron

Carlson Metal Products

CarlsonMetal.com

Sheet metal fabrication, MIG & TIG welding, turret press punching, CNC inspection, shearing, punching, forming, welding, assembly and finishing services including powder coating, painting, stenciling, plating, silk screen printing and anodizing. Work with steel, stainless steel, aluminum, copper, brass and some plastics.

Troy

Centurion Medical Products

CenturionMP.com

Product line includes procedural trays, single-use instrument trays, catheter securement/stabilization and wound care/dressings. Services include contract packaging and sterilization services. Features 100% ethylene oxide sterilization, in-house services include product sterility, biological indicator, bioburden, bacteriostasis and spore strip enumeration testing.

Williamston

Clinton River Medical Products

ClintonRiverMedical.com

Its Tailwind power-assist wheelchair is comprised of an ultra-lightweight aluminum frame, electronics, dry cell NiMH8.4 Ah battery, custom upholstery options, hand rim, caster wheels and tires. It is custom designed and made for each user; almost any dimension can be configured to fit.

Auburn Hills
**DASI Solutions**

**DASIsolutions.com**

Fused Deposition Modeling (FDM), PolyJet printing and rubber over molding capabilities.

**Debron Industrial Electronics**

**Debron-Electronics.com**

Capabilities range from simple, single-sided thru-hole to multi-layer, fine pitch surface-mount assemblies, complex technology assemblies using semi-rigid flex, aluminum substrate and high-content copper circuit boards. Capabilities also include a wide range of axial, radial, odd form components, surface mount devices and leading edge, Ball Grid Array (BGA) placements. Also has wire and cable assembly services for stand-alone production needs. Box builds for customer specific projects and validation and testing.

**Delphinus Medical Technologies**

**DelphinusMT.com**

Developing a 3D whole breast ultrasound system using sound and water for imaging, via proprietary algorithms. The SoftVue™ system has received FDA clearance for diagnostic imaging purposes.

**Diamond Tool Manufacturing**

**DiamondToolMfg.com**

Diamond and CBN electroplated tooling, CNC machining and grinding. Products include a wide variety of form wheels, broaching wheels, hone tools and grinding mandrels for manufacturing and surgical instruments. The surgical instruments include custom burrs, fluted burrs, diamond plated burrs, bone saws and accessories. Capabilities include custom notching and private label marking.
Di-Coat Corp.

DiCoat.com

Manufacturer of surgical instruments, cutting tools, broaches, jigs and mandrels used by tooling companies to manufacture parts; also the machinery that uses the tools.

Di-Coat Corp.

Dynamic Computer Corp.

DCC-Online.com

Q-wrx\textsuperscript{SM} is a deployment ready quality management system for ISO 13485 registered companies. As a value-added IT reseller, helps clients acquire IT hardware and software via OEM channels to verify authenticity, security and compliance with all regulatory requirements.

Dornerworks, LTD

Dornerworks.com

Has provided software development for an ultrasound bone stimulator, which included LCD display, encrypted USB communications and rechargeable batteries; a pneumatic control circuit board and pressure sensing I/O circuit board for Stryker hospital bed, which included safety critical software design, SPI & CAN inter-processor communication; MultiGen\textsuperscript{™} radiofrequency generator for chronic back pain treatment, which included full touch-screen interface and independent controls for up to four lesions, thermal elements; developed a system for moving large patients without risk of injury, which included thermal and power signal spacing with analog I/O, motor control, power regulation on a high density board.

Dornerworks, LTD

Electro Optics Manufacturing

ElectroOpticsMfg.com

Contract manufacturer specializing in precision stamping, machining and assembly. Also manufacturers tools for termination of fiber optic cable and copper wire. CNC milling, surface grinding, assembly, bar-coding, cleaning, coating, deburring, heat treatment, in-house testing, pad printing, packaging and plating. Tooling capabilities include dies from progressive, compound, carbide, steel, forming and small die punches. Materials include aluminum, beryllium, brass, copper, ferrous alloy, high temperature alloys, nickel, non ferrous alloys, plastic, spring steel, stainless steel and thermal alloys.

Dornerworks, LTD

Electro Optics Manufacturing

ElectroOpticsMfg.com

Contract manufacturer specializing in precision stamping, machining and assembly. Also manufacturers tools for termination of fiber optic cable and copper wire. CNC milling, surface grinding, assembly, bar-coding, cleaning, coating, deburring, heat treatment, in-house testing, pad printing, packaging and plating. Tooling capabilities include dies from progressive, compound, carbide, steel, forming and small die punches. Materials include aluminum, beryllium, brass, copper, ferrous alloy, high temperature alloys, nickel, non ferrous alloys, plastic, spring steel, stainless steel and thermal alloys.
Elite Mold & Engineering
TeamEliteOnline.com
Has rapid prototyping capabilities. Produces prototype and low volume injection molds in aluminum and soft steel. Injection molding is available and capabilities include light assembly, insert molding, pad printing, plating, texturing, finishing, sonic welding and heat staking. Sister company Elite Plastic Products specializes in medium to high volume plastic molding.

Shelby Township

Emerald Engineered Decorative Solutions
EmeraldCorporation.com
In mold decorating, screen printing, pad printing, class A painting, laser etching, injection molding and electronic assembly.

Grand Rapids

EOS of North America
EOS.info
Focus on micro metal laser sintering of 3D or additive manufactured parts for a variety of industries including medical devices. Typical production volumes are between 10 and 1,000 units per year. Materials include: polyamides, polystyrenes, thermoplastic elastomers, and polyaoletherketones, aluminum, cobalt chrome, nickel alloy, martensite-hardenable steel, stainless steel and titanium.

Novi

Excel Medical Products
ExcelMedicalProducts.com
Complex device and kit assembly, product packaging, tray and pouch sealing and bonding including ultra-violet, epoxy and solvent. Molding includes thermoplastic, injection, insert, over molding and liquid silicone injection molding. Contract manufacturing and validation services include design, tooling and sterilization validations - ethylene oxide and gamma radiation, shelf-life studies, sterilization program maintenance and packaging validations. Also includes a variety of testing and inspection services, product storage and warehousing, finished product distribution and order fulfillment.

Wixom
FANUC Robotics North America

FANUCRobotics.com

Reliable, intelligent robots, system integrators and automation for industries including aerospace, automotive, consumer goods, medical and pharmaceutical. Offers standard and collaborative robot models for pharmaceutical and medical device manufacturing. Also has a line of multi-axis CNC machines with robot interface that are designed for orthopedic, spinal, trauma and dental implant and surgical instrument manufacturing.

Ferndale Contract Manufacturing

FerndaleLabs.com

Manufactures creams, ointments, gels, lotions and liquids. Contract manufacturing expertise in creating custom recipes and mixes. Has multiple tube fillers, liquid filling lines and cartoning equipment for packaging compounds. Packaging capabilities include aluminum, plastic, and laminate tube filling, bottle filling, foil pouch packaging, single-use towelettes, child-proof packaging options and kit assembly. Additional services include artwork design for custom package labels, warehousing, shipping and regulatory affairs assistance to ensure GMP and other compliances.

Firstronic LLC

Firstronic.com

Turnkey electronic assembly, complex PCB assemblies, SMT, fine-pitch and mixed technology products, box builds, RoHS compliant, conformal coating, potting, soldering, functional testing, in-circuit and final systems testing.

Fluxtrol

Fluxtrol.com

Provides coatings, including Teflon coating which provides protection for controllers used in the food industry, clean rooms and medical applications. Coating thickness can vary from several microns to more than 20 microns depending on coating type and technology.
## Frontier Medical Devices

**FrontierMD.com**

Machining, milling, Swiss turning, wire edm, prototypes, design and manufacturing assistance. Secondary processes include in-house electropolish, anodizing, passivation and packaging.

**Marquette**

## Future Products Tool Corp.

**Future-Products.com**

Builds tooling to customer specification, CNC machining, metal stamping, forming (draw, hydro, flow, hot and cold), powder metal and fine blanking. Multi-axis machining, contouring, milling, grinding, wire and sinker EDM and turning.

**Clawson**

## Globe Tech LLC

**Globe-Tech.biz**

Tooling design and construction up to 120 inches, gage and fixture design and build, die details and components. Fabrication includes laser cutting, water jet cutting, CNC machining, rapid prototyping, robotic and manual welding, MIG, spot and resistance, weld repair and quality analysis, press brakes and stamping. Has an SLA 3D printer in its metallurgical lab.

**Plymouth**

## GoBioMed

**GoBioMed.com**

Company has partnered with next generation specialty surgical devices, wound care, infection control, orthopedic, anesthesia and other product manufacturers to provide products to medical institutions.

**Waterford**
Gonzalez Production Systems Inc.

Gonzalez-Group.com

Expertise in joining and fastening methodologies for aluminum welding, adhesives, magnesium to aluminum joining, remote laser welding, nut runners and self-piercing rivets. Also has a line of vision aided robotic guidance systems and a staffing division to assist companies in hiring.

Gresham Driving Aids

GreshamDrivingAids.com

Provider of mobility product including wheelchair vans, lifts, scooters and other adaptive equipment for vans and vehicles.

Harding Energy

HardingEnergy.com

Manufactures custom battery cells, packs and chargers. Provides prototyping and custom plastics, packaging and kitting, validation testing, private label capabilities, injection molding, insert molding, overmolding, custom colors, multi-component assemblies and internal and external threads.

Hart Enterprises Inc.

HartNeedles.com

Prototyping, design and turn-key products, metal fabrication, plastic fabrication and assembly, packaging and sterilization. Polishing, flaring, crimping, forming, knurling, bending, inspection, heat treating, brazing, electropolishing, passivation, piercing, deburring, welding and flattening. Insert molding, small part molding, insulating coatings, complete device assembly, cannula, individual packaging and sterilization and inspection.

Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Website</th>
<th>Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hi-Tech Mold &amp; Engineering Inc.</td>
<td>HiTechMold.com</td>
<td>Steel and aluminum additive manufacturing of components, DMLS, EDM, polishing, graining, coating, 3D plastic component and prototype feasibility studies. Also provides multi-axis machining and presses.</td>
<td>Rochester Hills</td>
</tr>
<tr>
<td>Hommel-Etamic America Corp.</td>
<td>Jenoptik.com</td>
<td>Integrated photonics group with a focus on optical systems, healthcare, automotive, traffic solutions, civil and defense systems. Medical division is focused on life science, laser, automotive and LED lighting applications. Product portfolio includes semiconductor chips, optoelectronics, laser technology, polymer optics, electronics and software. Examples are next generation DNA analysis, LASIK and blood glucose measurements.</td>
<td>Rochester Hills</td>
</tr>
<tr>
<td>Hoover Precision Products</td>
<td>HooverPrecisionPlastics.com</td>
<td>Provides plastic balls and medical beads for raw material. Also performs medical injection molding and clean room molding. Materials include acetal, acrylic, nylon, polyamide, polycarbonate, polyethylene, polypropylene, polystyrene and PTFE.</td>
<td>Sault Ste. Marie</td>
</tr>
<tr>
<td>Hy-Tech Spring</td>
<td>HyTechSpring.com</td>
<td>CNC production centers to custom manufacture precision parts. Swiss turning, milling, turning, grinding, wire EDM, honing, CMM, engraving, etching, textured designs, plasma and laser welding, ultrasonic cleaning, passivation, heat treating, fixtures and tooling, assembly and bar coding. Works with carbon and alloy steels, stainless steel, tool steels, cast iron and exotic materials as well as plastics and foams.</td>
<td>Plainwell</td>
</tr>
</tbody>
</table>
IEE Sensing Inc.

IEE.lu

Production, testing, sales, business development, finance and quality activities, with ISO/TS 16949 certification. Sensor technologies are also used in training and sports performance assessment and rehabilitation and preventive products which utilize technology developed for automotive applications. Products include a smart foot sensor that provides information on running technique and provides personalized training plans. This same sensor is used in orthotics, providing data on posture, plantar pressure and other data, particularly useful after lower limb procedures. Smart input sensors are thin, flexible and foil-based pressure sensing devices.

INOA USA

INOACUSA.com

Reticulated and specialty polyurethane foams for medical needs. Open-pore foam allows fluid and gases to pass, allowing permeability as needed. Can also be produced for pressure wounds and negative pressure wound therapy.

Integrated Sensing Systems

MEMS-ISS.com

Wireless medical monitoring systems. Wireless portfolio includes sensors, is implantable, uses magnetic telemetry and a pressure transducer. Materials are selected to ensure biocompatibility and non-thrombogenicity. Devices can be used for long-term management of chronic diseases and short-term post-operative care. Has an FDA pre-market notification for its first drug delivery product being developed for commercialization.

Industrial Woodworking Corp.

IndustrialWoodworking.com

Designs and manufactures furniture and components for hospitals and acute care facilities. Processes include thermoforming; finishing and painting, laminates, veneers, edgebanding and solid wood construction; assembly and packaging.

Zeeland

Ypsilanti
**J & B Medical Supply**

JandBMedical.com

Medical distribution company focusing on a variety of medical and surgical products, emergency medical equipment, retail home medical supplies, breast pumps and veterinary products.

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**J. Sterling Industries**

SterlingIndustries.com

Manufacturing capabilities include machining, milling and turning, injection molding, forming, casting, heat treating, coating and finishing — including anodizing, chrome plating, powder coating, bead blasting, polishing — some sub-assembly and engineering support.

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**Kent Manufacturing**

Kent-Mfg.com

Portfolio of bonding and fastening solutions includes a full range of 3M tapes, fasteners and films for manufacturers of durable medical equipment including assembly of metal, rubber, glass and low surface energy plastics. Also carries products designed for disposable medical devices such as diagnostic test strips and reclosable devices. Can also produce a variety of stick-to-skin products for patient care such as electrodes, nonwoven tapes for extended wear, hydrocolloid adhesive tapes and foam tapes.

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**Keystone Product Development**

Keystone-PD.com

Contract medical device manufacturing of disposable and durable medical goods. Class I and Class II disposable products to complex durable medical equipment and electro-mechanical assemblies. Cleanroom assembly, kitting, packaging, sterility management and fulfillment.

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*Locations:*

- Wixom, Oakland County, MI
- Kalamazoo, MI
- Grand Rapids, MI
Kremin
KreminInc.com
Specializes in precision turning, milling and grinding. Swiss turning, surface, ID, OD grinding, jig grinding, honing, laser marking, sonic cleaning, passivation and epoxy application.

Frankenmuth

LMS (an Aptar Company)
LMSValves.com
Specializes in liquid silicone injection molding (LIM) and thermoplastic assembly. SLA, machining, molding, multi-piece assembly. Medical device products include valve and seal assemblies for a variety of applications including ports, cannulas, endoscopic devices, surgical valves, vent valves and one-way check valves.

Midland

M.A.K.S.
MAKSInc.net
Engineering-intensive circuit board layout and assembly up to 64 layers. Through-hole and surface mount. Box build, wiring. Manufacturing capabilities: screen printer/solder paste machines, pick and place machines, reflow ovens, nitrogen capable for lead free solder, selective soldering machines, aqueous batch washer/clean and no-clean boards, automated optical inspection and x-ray inspection system. Past applications include hotel door locks, auto diagnostics, medical devices and electronic game pieces.

Mar-Med, Co.
MarMedCo.com
FDA registered medical device manufacturing site certified to ISO 13485. Designs and distributes novel, disposable devices for emergency medicine and orthopedic surgery. Products include various tourniquets for digits (i.e., fingers and toes). Its derma-stent product is undergoing clinical trials at Wayne State University to measure outcomes in comparison to packing gauze.

Grand Rapids
Marposs Corp.

Marposs.com

Produces measuring and metrology equipment, including its Orthoflex product, a machine using vision sensing technology to evaluate the quality, dimension, aesthetic and overall matching specifications of various orthopedic devices. Beyond prosthetic testing, also provides leak testing and gauging equipment for biomedical applications.

Oakland County Business

Auburn Hills

Materialise

Materialise.com

Stereolithography, laser sintering, FDM, DMLS, SLM, HP Multi Jet Fusion, colorjet, PolyJet, vacuum casting and investment casting. Products include patient specific implants and patient specific guides. Also offers software solutions. Materials include: aluminum, titanium, stainless steel, PA 12, alumide, polyamides, with glass, flame retardant, polyurethane, PP, ProtoGen White, ABS and a variety of composite materials.

Plymouth

MC3 Corp.

MC3Corp.com

Produces medical devices addressing acute cardiopulmonary clinical needs. Examples include diffusion tip arterial cannula, which is now distributed by Medtronic.

Dexter

MedBIO

MedBioInc.com

Detail design mold, mold building, micro tooling, two shot tooling, prototype tooling, CNC, EDM, engraving, laser welding, diamond polishing, mold flow analysis and scientific mold tryout. Injection molding, hybrid-hydraulic electric injection molding machines and cleanroom molding. Works with a large variety of resins and materials including ABS, LDPE, PE, PC-ABS, PET, PC, PP, HDPE, PPS, TPU, PVC, PEEK and TPE. Clean room assembly includes laser welding, ultrasonic welding, gluing, UV cure adhesives, solvent bonding, pad printing, hot stamping and custom assemblies.

Grand Rapids
Medimage

MedImage.com

Products include a suite of display, communication and image data translation software with direct integration to Corridor4DM and NeuroQ specialty software packages. Software works for nuclear medicine, PET and CT imaging, cardiac and brain analyses.

Ann Arbor

Medi-Nuclear Corp

MediNuc.com

Services cardiology departments, nuclear medicine, PET, hot labs and diagnostic imaging centers with JIT inventory. Product lines include nuclear medicine, equipment, general imaging and cardiology supplies like electrodes, EKG cables and IV infusion supplies.

Caledonia

Michigan Instruments

MichiganInstruments.com

Materials: aluminum, steel, and plastic machining and turning. Precision machining, grinding and honing, de-burring, tumbling and finishing, engineering, assembly and test, complete traceability and document control. Class III medical device facility.

Grand Rapids

Michigan Metals & Manufacturing, Inc.

MichMM.com

Provides rare earth and refractory metals in varying purities as raw material or as manufactured items. Its products include custom alloys, specialty powders, wire, foil, tubes and rods, evaporation shapes, sputtering targets, brazing materials, plates and sheets, single crystals and stable isotopes.

West Bloomfield
Micro Machine Company
MicroMachineCo.com
Manufactures machining for complete knee instrument systems, complex assemblies, measuring devices, broach handles, impactors/extractors, saw guides, ankle implants, small toe implants, elbow implants, spinal implants and trials made from titanium, cobalt chrome, stainless steel and PEEK. Also manufactures raps, t-handled instruments, complex retractors and small spinal trays. Latest products include scope components and external fixation devices to aid in trauma injuries.
Kalamazoo

Miller Technical Services, Inc.
MTSMedicalMfg.com
Manufacturing experience includes mobility systems, imaging, laboratory testing, ophthalmic devices, dental instruments, orthopedics, sterile products, surgical instruments, cardio-vascular devices and SPD equipment. Supply chain management capabilities can provide solutions for electronics, machining, casting, forging, injection molding, material finishes and fabrications.
Plymouth

Myco Industries
MycoIndustries.com
Provides software and other IT Solutions for health care. Cloud based SaaS solution helps providers and patients work together. Distributes a variety of surgical instruments and ultrasonic wound debridement equipment in Michigan, Ohio, Indiana and Kentucky.

NoIR Medical Technologies
Noir-Medical.com
Manufactures international-certified LaserShield laser safety eyewear for medical, military, aviation, scientific and industrial applications. Produces filters for alignment, forensics, UV/Blue light curing, photodynamic therapy, enhancement and telecommunications. Sun filters work for the partially sighted, post-operative cataract patient and recreationalists, with over 50 different lenses of various colors and transmission characteristics.
South Lyon
Northwest Tool & Machine Inc.

NWTool.biz
Specializes in job shop work such as precision I.D., O.D., flat and jig grinding; Wire EDM; CNC milling and turning; large and small detail work; boring mill work; laser engraving; design and build and build to print jobs; work-holding fixtures, gages, and small special machines; automation; prototype to production tooling and general machine and repair work. Company maintains a registered toolmaker apprenticeship program.

Jackson

NYPRO, A Jabil Company

Jabil.com
Specializes in rapid prototyping, digital prototyping, validation and testing, accelerated product introduction, decoration and in-mold labeling and sustainable packaging. Products include fluidics, pneumatics and hydraulics, micro-fluidics, mechanical design and build to order. Serves the healthcare, analytical instruments and automotive industries.

Odyssey Electronics Inc.

Odyssey-OEI.com
SMT, THT, wave and selective solder, testing, automated optical inspection, conformal coating, potting, box build, screen printing, x-ray inspection, axial insertion/sequencing, repair and modifications of existing PCBs, wire harnesses, and connectors. Materials include FR materials, flex, rigid flex, CEM materials and aluminum.

Livonia

Oerlikon Balzers

Oerlikon.com/Balzers
Its medical coating series for tools and components from dental instruments, dental screws to bone saws, drills and reamers and medical instruments with antimicrobial properties.

Auburn Hills

Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
Oliver Healthcare Packaging

OliverHCP.com

Producer of sterilizable, cost-effective, protective packaging for medical device, pharmaceutical and biologic companies. Products include porous substrates for EtO and steam sterilization and film and foil laminations for radiation sterilization, with high performance, UV, moisture and/or oxygen barrier properties.

Grand Rapids

Omega Plastics

OPinc.com

Prototypes on average in 2-3 weeks and production molds in 3-6 weeks. Tooling can be prototype, bridge, production or transfer tooling manufactured from aluminum, steel and stainless. Can include bases, insert or freestanding, multi-axis CNC machining, sinker and wire EDM, mold surface finish and texturing, cold runner and hot manifold as needed. Plastic injection molding includes insert and over molding, high temperature resins, including PEEK, PEI, PPSU and more. Class 8 clean room for production molding and assemblies and packaging. Additional services include pad printing, EMI/RFI shielding, painting, machining, annealing, metal cutting, punching and forming, sonic insertion, ultrasonic welding, adhesive and solvent bonding and application of gaskets, labels and/or protective films.

Clinton Township

Omega Surgical Instruments

Omni Medical Supply Inc.
OPS Solutions

LightGuideSys.com

Products are augmented reality tools designed to create a digital operating ‘canvas’ directly onto virtually any work surface with audio and visual prompts, guidance, pacing and direction. Medical applications include medical device manufacturing and packaging, inspection and component verification and instrument cleaning and sterilization assistance.

Orchid Orthopedic

Orchid-Ortho.com

Forging of exotic alloys: titanium, cobalt-chromium-molybdenum, stainless steel and zirconium. Concept, design and prototyping solutions. Machining capabilities for hard-die manufacturing and machining of implants. Products include acetabular cups, femoral hip stems, femoral knee components, tibial base components, trauma and fusion plates, extremity parts and forged blanks.

Orchid MACDEE

Orchid-Ortho.com/Chelsea

Plastic injection molding, custom packaging and labeling. Medical grade plastic materials include PEEK, Torlon, PMMA, PPS and PSU. Experience with machining of surgical instruments and implants, Swiss style and conventional turning, milling, grinding, EDM machines, laser machining and laser welding, color coding, diamond coating, gundrilling and micro deburring.

Orchid Orthopedic

Orchid-Ortho.com/Farmington-Hills

Custom coatings and surface treatments for implants. Coatings for titanium, cobalt-chromium, stainless steel, PEEK, UHMPWE, RBM and other custom coatings. Additional capabilities include passivation, clean and sterile packaging in a ISO Class 7 cleanroom.

Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
Orchid Unique (Bridgeport)

Orchid-Ortho.com/Bridgeport

CNC Machining, Swiss machining, turning, milling, grinding, EDM machines, laser machining, laser welding, color coding, diamond coating, gundrilling, micro deburring, finishing, chrome coating and electropolish. Materials include: implant-grade UHMWPE, high temperature resistant engineering plastics, thermoplastic resins and biodegradable polymers.

Bridgeport

Osco Inc.

OscoSystems.com

Offers both stock and custom engineered machines including runnerless molding systems and replacement parts, specialty nozzles, valves and filters for injection molding.

Rochester Hills

Oxus America

OxusAmerica.com

Designer and manufacturer of portable oxygen concentrators (POCs). Also provides contract engineering and manufacturing to medical equipment companies, particularly for POC and other gas separation and respiratory equipment.

Auburn Hills

PGK Services

PGKServices.net

Offers engineering design services and staffing assistance to a variety of industries including the medical market. Services include contract, project based, short and long term assignments and direct placement services.

Troy
Pinnacle Technology Group

PinnacleTec.com

Serves the medical training market with a variety of training manikins for blood pressure, auscultation (lung sounds), cardiac and airway management and AED situational training. Also offers electronic manufacturing services.

Ottawa Lake

Pointe Scientific

PointeScientific.com

Clinical chemistry includes analyzers, diagnostic reagents, exyme immunoassays (EIA), calibrators, quality control, instrument specific reagents and consumables. Provides contract manufacturing and private labeling for OEM-specific chemistries.

Canton

Precision Edge Surgical Product

PrecisionEdge.com

CNC machining centers, multi-axis machining, CNC grinders, lathes, gundrilling, Wire EDM, laser etching, laser cutting, welding (laser, MIG, TIG, and soldering), blasting, electropolish and passivation. Other capabilities include packaging, label design, bar coding and vendor managed inventory.

Boyne City

Prezio Health

PrezioHealth.com

Perioperative services include surgical instrument repair and maintenance, endoscopic equipment repair and maintenance, optimization, asset management, surgical instrument marking and training for CBSPD - Certification Board for Sterile Processing and Distribution certification.

Novi
Product & Tooling Technologies

PTTech.us

Plastics services include injection molding, blow molding, acoustic molds (foam in place, compression, waterjet), RIM Molds, vacuum forming, cold pour tooling (urethane components), and layups (carbon fiber and fiberglass). CNC machining and milling includes multi-axis machining, drilling and boring and gundrills. Stamping capabilities include die design, prototype parts, full assemblies and fabrication, fixture and assembly fixtures and welding — including spot, MIG, TIG and spin — grinding and polishing, cutting and drilling and class A surfaces.

Fraser

Pros-Tech Inc

Pros-Tech.com

Creates customized braces, orthotics and prosthetics. Orthotics are for upper extremities, cervical or spinal support, hips, knees, ankles and feet. Prosthetics are primarily for trans-tibial, trans-femoral, hip, fingers, trans-radial, trans-humeral and shoulder disarticulations. Upper extremity prosthetics sometimes include passive, mechanical, electronic or combination limbs. Materials include silicone, titanium, aluminum, stainless steel and carbon composite.

Protomatic Medical

ProtomaticMedical.com

Offers CNC precision machining, multi-axis machining, milling, turning, lathes, ovens, presses, laser engraving, testing and quality inspection. Products include surgical tools, lab testing equipment, optical tools, cardiovascular and orthopedic devices, as well as components for the optical and dental market. Materials include aluminum, steel, plastic, rubber, ceramics, titanium, refractory metals and superalloys.

Dexter

PTI Engineered Plastics

TeamPTI.com

Materials include aluminum, mild steel, hardened steels, stainless and copper beryllium to make prototypes, low volume, hybrid and production tooling. Can also manufacture mold bases. Mold design includes Direct Metal Laser Sintering, an additive manufacturing component which helps in creating hollow core inserts. Injection molding includes insert and over molding, high temperature molding, scientific molding and cleanroom molding. Secondary operations include ultrasonic welding, staking, spot welding and swaging, spin welding, vibration welding, thermal processing for plastic joining, laser marking, pad printing and applique assembly, EMI and RFI shielding, hydrographics, paint and plating.

Macomb
Robinson Industries

RobinsonInd.com

In-house capabilities for packaging processes include thermoforming, injection molding, vacuumforming and structural foam.

Coleman

Rockwell Medical

RockwellMed.com

Biopharmaceutical company targeting end-stage renal disease (ESRD) and chronic kidney disease (CKD) with innovative products and drug therapies for the treatment of iron replacement, secondary hyperparathyroidism and hemodialysis in the U.S. and throughout the world. Products include drug therapies and hemodialysis concentrates for dialysis. Its iron drug, Triferic, is the only FDA approved iron drug used to infuse the bloodstream after dialysis treatment. Approval was received in 2015 and launched for commercial sales in September of that year.

Rockwell Medical

RockwellMed.com

Biopharmaceutical company targeting end-stage renal disease (ESRD) and chronic kidney disease (CKD) with innovative products and drug therapies for the treatment of iron replacement, secondary hyperparathyroidism and hemodialysis in the U.S. and throughout the world. Products include drug therapies and hemodialysis concentrates for dialysis. Its iron drug, Triferic, is the only FDA approved iron drug used to infuse the bloodstream after dialysis treatment. Approval was received in 2015 and launched for commercial sales in September of that year.

Royal Oak Medical Devices

RoyalOakMed.com

Implants are U.S. made, FDA 510K cleared and 2D etched for tracking. Products include implantable pedicle screws, rods, cross connectors, cages and surgical instrumentation for spinal fusion both cervical and lumbar. Customer service includes inventory management options for hospitals.

Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
RTI Surgical

RTIx.com

Manufacturer of metal and synthetic implants made from a variety of materials including PEEK. Michigan is known for spinal implants for use in spinal surgery, particularly cervical and thoracolumbar fusion procedures.

Marquette

Safari Technologies

SafariCircuits.com

Engineering, assembly, testing, PCBs, surface mount technology (SMT), through-hole technology (THT), BGA and micro-BGA, wave soldering and supply chain management.

Otsego

Safe N Simple

SNS-Medical.com

Wide variety of medical products for the ostomy and wound care markets. Products promote healthy skin and healing wound care management.

Clarkston

Saint Gobain Performance Plastics

Medical.Saint-Gobain.com

Materials include silicone, thermoplastics and fluoropolymers. Process include compression/transfer molding, insert/over molding, two-shot thermoplastics, silicon micro molding, Liquid Silicone Rubber (LSR) and High Consistency Rubber (HCR) for molds. Medical extrusions include tubing, coextrusions, profiles, multi-lumen, radiopaque, paratubing, tapes, silicone corrugated tubing and a variety of secondary operations like punching, striping, printing, silk screening, winding tubing and/or tapes to spools/reels, cut to length.

Beaverton
Saline Lectronics Inc.

Lectronics.net

Electronic manufacturing includes multi-layer PCB assembly, surface mount technology, soldering, conformal coating, encapsulated electronics-grade potting, wire bonding, electro-mechanical box build and testing and inspection. Factory is connected (i.e., Industry 4.0). Electronic contract manufacturing, to the commercial medical, aerospace and telematics industries.

Saline

Setco Sales Co.

Setco.com

Designs, manufactures and services high performance spindles, slides and milling heads. Includes new and rebuilt belt-driven, geared, motorized, high speed and high frequency models.

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Oakland County

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Skytron LLC

Skytron.us

Products include surgical lights, tables, booms, RFID for asset tracking, steam sterilizers and incorporates video integration as applicable.

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Grand Rapids
SMC Corporation of America

SMCUusa.com

Products for life sciences includes electric actuators, pneumatic actuators, chemical and fluid process valves, directional control valves, high purity fluoropolymer tubing, fittings and valves, temperature controls and liquid dispense pumps used in cleanrooms.

SOTA Technologies

Sota-Tec.com

Metalforming services include progressive stampings, transfer stamping, deep drawn, prototype, roll forming, resistance welding, assembly engineering support, die design, JIT delivery and logistics.

Stanco Metal Products

StancoMetal.com

Assembly and welding, tapping, powder coat paint system, gas-fired curing oven, finishing and packaging.

Grand Haven

Stryker Corp.

StrykerCorp.com

Twenty business units from communications and navigation to craniomaxillofacial, endoscopy and orthobiology with surgical, spine, trauma and extremity and EMS equipment.

Portage
<table>
<thead>
<tr>
<th>Company</th>
<th>Website</th>
<th>Services Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surge Cardiovascular</td>
<td>SurgeCardiovascular.com</td>
<td>Innovative product development for cardiac care professionals. Designs, develops, manufactures and markets open heart surgical products. Portfolio includes perfusion sets, retrograde cardioplegia cannulae, antegrade cardioplegia cannulae, cardiac suckers, vessel cannulae and cardiovascular surgery accessories like tourniquets, insulation pads, retraction clips, suction safety devices, suture guides, myocardial temperature probes and tubing organizers.</td>
<td>Grand Rapids</td>
</tr>
<tr>
<td>Surgitel</td>
<td>Surgitel.com</td>
<td>Optical components and optical imaging equipment for dental and medical professionals. LED lighting.</td>
<td>Ann Arbor</td>
</tr>
<tr>
<td>TD Industrial Coverings Inc.</td>
<td>TDIC.com</td>
<td>Class 100 Clean Room for packaging final products which are fabric covers for robotic arms and masking for paint facilities.</td>
<td>Sterling Heights</td>
</tr>
</tbody>
</table>
**Tech Group Grand Rapids**

*WestPharma.com*

Company designs and produces integrated containment and delivery systems for injectable medicines. As a contract manufacturer, can assist from product conceptualization to manufacturing and final packaging. Precision injection molding includes molding, multi-shot, insert, Liquid Silicone Rubber molding and optical. Short to medium production runs, class 7 and class 8 clean room assembly and secondary operations, tool building and repair capabilities. FDA registered.

*Grand Rapids*

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**Tecomet**

*Tecomet.com*

Machining of implants includes CNC machining, multi-axis machining, grinding, milling, polishing, passivation, turning, laser marking, ultrasonic cleaning, FDM and DMLS. Materials include: stainless steel, titanium and plastic. Lansing facility focuses on aerospace, defense and implants.

*Lansing*

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**Tekna**

*TeknaTeam.com*

Can do everything from research, strategy and market assessments, to product design, engineering, branding, manufacturability, prototypes, pilot runs, production, sub-assemblies, low to medium volumes, supplier qualifications, logistics, warehousing and distribution. Has outside partners for extrusion, casting, machining, forming and material finishes.

*Kalamazoo*

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**Tel-X Corporation**

*TelXCorp.com*

Sheet metal and machined prototype manufacturing, CNC machining, laser cutting, TIG, MIG, spot welding and stamping. Materials include copper, aluminum, brass, stainless, high-strength and low carbon steel, nylon, paper (gasket material) and galvanized steel.

*Garden City*
Terumo Cardiovascular Group

**Terumo-CVS.com**

Medical devices for cardiac and vascular surgery, including a full line of perfusion products. On-site molding, hollow fiber, oxygenators and miniaturized perfusion circuits.

Ann Arbor

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Thielenhaus Microfinish

**Thielenhaus.us**

Microfinish machines, machine-tools and attachments for high-precision finishing for a variety of components and surface types. Machinery can optimize ceramic and metallic surfaces making it ideal for shaping medical devices and implants such as the endoprosthetic hip and shoulder joints, reducing wear and increasing the weight capacity of the joint replacement.

Novi

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Thyssenkrupp

**Tkmla.com**

Raw materials include aluminum, brass, bronze, copper, custom steel profiles, nickel, plastics, stainless steel, tool steel and titanium. Engineered plastics. Meet FDA criteria for reducing sensitization and cytotoxicity concerns. Materials are used in prosthetics and orthotics. Medical technologies products are bar coded, have complete lot, batch and material traceability and include medical grade plastics, metals and biopharma products.

Auburn Hills

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TPC Sales LLC

**TPCsales.com**

Maker of molded rubber and plastic components and utilizes sonic welding, screen printing, heat staking, centerless grinding, assembly, injection molding, transfer and compression molding and injection over molding for part manufacturing. Materials include thermoplastics, acetal, polycarbonates, TPEs including nitriles, FKM and flexible PVC, and ECO, fluorosilicones, EPDM and other specialty materials. Machined components division has screw machines, CNC machining including turning, grinding and milling, boring, drilling, deburring, knurling, reaming, polishing and threading. Works with a variety of alloys, steels, aluminum, brass, titanium, copper and stainless steel.

Auburn Hills

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Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
**Trelleborg Sealing Solutions**

**TSS.Trelleborg.com**

Dip molding and coating. Primary material is silicone. Contract manufacturing for health and medical device market in Elk Rapids, which carries ISO 13485 certification.

**TruLife**

**TruLife.com**

Materials include silicones, elastomers, foams, titanium, aluminum, stainless steel, acetal, resins, polyethylene, carbon fiber, fiberglass and other composites.

Jackson

**Trutron Corp.**

**Trutron.com**

Precision machining includes CNC turning, CNC machining, high speed machining, Sinker EDM, Wire EDM, jig, I.D., O.D. and surface grinding, ultrasonic cleaner, inspection equipment, and a 3-D FDM printer for ABS builds.

Troy

**Tri-Pac Inc.**

**Tri-Pac.us**

Advance contract manufacturing division provides an array of chemical products including aerosols, liquids, bovs and piston aerosol. Product portfolio includes personal care and OTC items such as FDA hand sanitizer, FDA pain relief sprays and FDA wart freezes. R & D labs are able to create products to customer specifications and conduct in-house formulations to develop new products.

Vandalia
TSM Corp.

TSMcorp.com

Precision machine components, flexible machining centers, assembly and test. Materials include aluminum die castings, extrusions, permanent mold castings, sand castings, ductile iron and gray iron castings, stainless steel investment castings, steel forgings. Secondary services include painting, e-coating, heat treating and plating.

UFP Technologies

UFPT.com

Design capabilities include component, packaging or product. Expertise working with foams, plastics, molded fiber, fabrics, films and other specialty materials. Foam fabrication includes routing, water jet cutting, saw cutting, compression molding, laminating, die cutting, heat sealing, laser etching and pad printing. Thermoforming is used to create custom packaging including clamshells, blisters and trays. Materials include ABS, APET, PETE, PETG, Polycarbonate, Polyethylene, Polypropylene, Polystyrene, XLPE, and TPU. Cleanroom manufacturing includes thermoforming, compression molding, rotary presses, die cut and packaging of medical device components. In-house tooling shop includes cutting dies and cutting tools.

Vaupell Midwest Molding and Tooling

Vaupell.com

3-D printing via SLA, SLS, DMLS, FDM and PolyJet. Also does resin casting, metal casting and investment, plaster mold casting. Sand casting, injection molds and molding. Injection molding capabilities include structural foam molding, insert molding, over-molding, in-mold decorating (IMD) and gas-assist molding. Can do metal to plastic (M2P) conversions and CNC machining with multi-axis machines and EDM. Focuses on injection molds and production tooling builds for all locations. Materials include Acetals, Nylons, polysulfones, PEEK, PEKK, Ryton® and bioabsorbable materials.

Ventura Manufacturing

VenturaMfg.com

Manufacturer of automotive, furniture and moldable silicone components.

Contact us at Info@MedicalMainStreet.com to connect with any of these suppliers.
Wolverine Assemblies LLC

Wolverine-LLC.com

Provides value-added warehouse services for a variety of industries including healthcare organizations. Services include real time visibility with track and trace capabilities, real time information and shipment status, on-time delivery and consistency and reducing variability.

Wolverine Orthotics

WolverineOrthotics.com

Custom orthotic manufacturing. Casting is done for extremity, then fabrication for brace and frames.

Xcentric Mold & Engineering

XcentricMold.com

Insert molding, overmolding, multi-component assemblies, internal and external threads, custom colors, CNC machining and multi-axis machines. Works with metal or plastic, threads and holes. Offers a variety of finishes including anodizing, chrome plating. Builds molds for injection molding using proprietary process that shortens lead times from weeks to days, SLS, SLA, FDM and cast urethane. Materials include: aluminum, stainless steel, common steel, brass, titanium, variety of colored ABS, HDPE, LDPE, nylon, PC, PEEK, Acetal with polymers, PEI, PMMA clear acrylic, PP, PPSU, PS, PTFE and PVC.
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Oakland County Department of Health and Human Services
Kathy Forzley, Director

Oakland University
David A. Stone, Ph.D., Chief Research Officer, Professor, Department of Philosophy

Oakland University, William Beaumont School Of Medicine
Rick Kelley, Senior Director of Development

OU INC
Stephen Kent, Finance and Operations Manager

Oxus, Inc.
Tim Hatt, Director of Home Medical Equipment & Legislative Affairs

Sri International
Gloria Chou, Director of Clinical Operations

United States Patent & Trademark Office
Dr. Christal Sheppard, Director

University of Michigan – Dearborn College Of Education Health & Human Services
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