

# Custom Components for Minimally Invasive Devices

Our dedicated focus on providing component finishing and assemblies within the PolyMedex Discovery Group offers the added benefits of efficiency, traceability and consolidated resources. A wide variety of value added fabrication capabilities bring your extruded tubing component one step closer to a turnkey solution, shipped bulk, non-sterile to your facility for final assembly into your medical device.



## CAPABILITIES

### Precision Cutting

Most tubing components can be cut to length online during extrusion to tolerances of approximately  $\pm 0.080$ " ( $\pm 2.032$ mm). When tighter cut length tolerances are required, specialty cutting equipment is used offline which is capable of finished cut length tolerances as tight as  $\pm 0.005$ " ( $\pm 0.27$ mm).

### Hole Cutting

Whether it is a through and through hole or a blind hole into a specific lumen, PolyMedex Discovery Group has the CNC hole cutting equipment necessary to provide access to the interior of the most complex extrusions.

### Machining

Utilizing both CNC grinding and lathe turning methodologies, PolyMedex has the capabilities to machine custom profiles into the outer surfaces of extruded tubing.

### RF Forming

Encompassing a vast range of capabilities, RF forming utilizes the precise application of heated tooling to shape extruded components with features including tips, flares, and welded joints.



### Insert Molding

By molding connectors such as luers or hubs directly over an extruded component, manual assembly steps can be eliminated and a strong polymer-to-polymer bond achieved. Insert molded connectors are an ideal match for complex multi-lumens where access to each lumen is required and standard connectors are insufficient.



### Pad Printing

PolyMedex Discovery Groups' customized pad printing equipment is capable of printing multiple colors on components over a meter in length and applying graphics to the full outer surface circumference of the extruded tubing. Advanced surface pre-treatment technologies allow for excellent ink adhesion to even the most challenging polymers such as: polyethylene, PEEK, and thermoset polyimide.

### Annealing

PolyMedex utilizes a large walk-in annealing oven capable of applying customized heat cycles to extruded components up to two meters in length. Incorporating annealing into the manufacturing process can provide a dimensionally stable finished product.

### Assembly

It is the goal of PolyMedex Discovery Group to provide as complete an extruded tubing subassembly as possible, reducing costs and simplifying the supply chain of our customers. Whether it is the simple assembly of a catheter into a storage tube, the application of a press fit connector, or more complex UV adhesive assembly of pre-fabricated components, PolyMedex can provide component subassemblies ready for final assembly in our customers' devices.

# PolyMedex DiscoveryGroup

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*Enabling Polymer Technologies to Improve the Quality of Life™*

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