



ANOTHER TFX OEM® INNOVATION:  
**A NOVEL PROCESS FOR JOINING  
DISSIMILAR TUBING SEGMENTS**

TELEFLEX MEDICAL OEM introduces a breakthrough joining technology that gives original equipment manufacturers exciting new options for their catheter and deliver system designs. This patented, moulding technique allows the production of catheter shafts with tubing sections of different diameters *without sacrificing flexibility and other performance characteristics* generally impacted by conventional processes. For example, the process allows:

- A larger distal section for a medical device, valve, or graft delivery application
- Larger distal sections joined to a smaller diameter proximal catheter shaft
- Dramatic increase of the diameter of the catheter's distal tip section using a precisely controlled process
- A transition section between tubing sections that is more flexible than conventional bonding methods
  - The length of the transition section can be increased or decreased to suit specific requirements
  - Transition section can be rigid or flexible without interfering with the strength of the distal or proximal shafts

With current manufacturing techniques, there are significant challenges associated with catheter designs requiring tubing sections of varying diameters. Once the ratio between the larger and smaller tubing sections exceeds 1.1, assembly over a fluoropolymer liner becomes problematic. Conventional bonding techniques become difficult and generally result in a rigid bond site and decreased catheter flexibility.

The new technique addresses the challenges of conventional bonding techniques. The innovative process opens up new possibilities for medical devices since catheter designs can incorporate a combination of rigid or flexible, reinforced or unreinforced tubing sections. There is tremendous potential for the TELEFLEX MEDICAL OEM process to be applied to valve or graft delivery systems, or to any interventional catheter design requiring strong proximal sections.

**TELEFLEX MEDICAL OEM**

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## **IF YOU CAN IMAGINE IT, YOU CAN ACHIEVE IT WITH TELEFLEX MEDICAL OEM**

We are single source provider of the product development and production services you need to get your ideas off the drawing board and into the market. Bring us your next project. TELEFLEX MEDICAL OEM has the deep expertise and decades of experience to deliver innovative solutions for your toughest, new product challenges. That is why we are the “go to” people for medical device manufacturers across the world who want to partner with a true industry leader in custom-engineered products. Our portfolio includes:

- Extrusions
- Diagnostic and interventional catheters
- Sheaths/dilators sets (introducers) and kits
- Performance fibers
- Sutures
- Bioresorbable resins and yarns



## **VERTICALLY INTEGRATED DESIGN, DEVELOPMENT, AND PRODUCTION SERVICES**

Our team of highly-qualified engineers, material and polymer experts, PhD scientists, and skilled technicians makes TELEFLEX MEDICAL OEM stand above the rest. You can count on us to enhance your design, develop functional prototypes, guide you through the maze of global regulations, and scale up for manufacturing. It is all made possible by our extensive, in-house capabilities, which include:

- Engineering
- Regulatory affairs
- Materials selection
- Prototyping
- Testing and validation
- Production process development
- Manufacturing and assembly
- Packaging and sterilization
- Sterilization



[www.teleflexmedicaloem.com](http://www.teleflexmedicaloem.com)

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