



PROPELUS PROTOTYPE CENTERS

PROTOTYPE WITH THE END IN MIND

One partner from development through scalable manufacturing.

Connect early development, production-relevant prototyping and manufacturing expertise through one coordinated global network.

MOVE FROM IDEA TO A MORE INFORMED DEVELOPMENT PATH

Medical device development can become fragmented when engineering, prototyping and manufacturing decisions happen across different suppliers or at different stages. Late handoffs can introduce additional questions just as a design is becoming harder to change.

TE Medical's PROPELUS Prototype Centers bring development and manufacturing thinking together earlier. Customers can engage directly with specialized engineering teams, explore prototype options and consider future production requirements while designs remain open to refinement.

FEWER DISCONNECTED HANDOFFS

Work with one coordinated partner across engineering collaboration, prototype development and potential future manufacturing needs.

MORE RELEVANT PROTOTYPE LEARNING

Use dedicated development environments to build and refine production-relevant prototypes for testing and iteration.

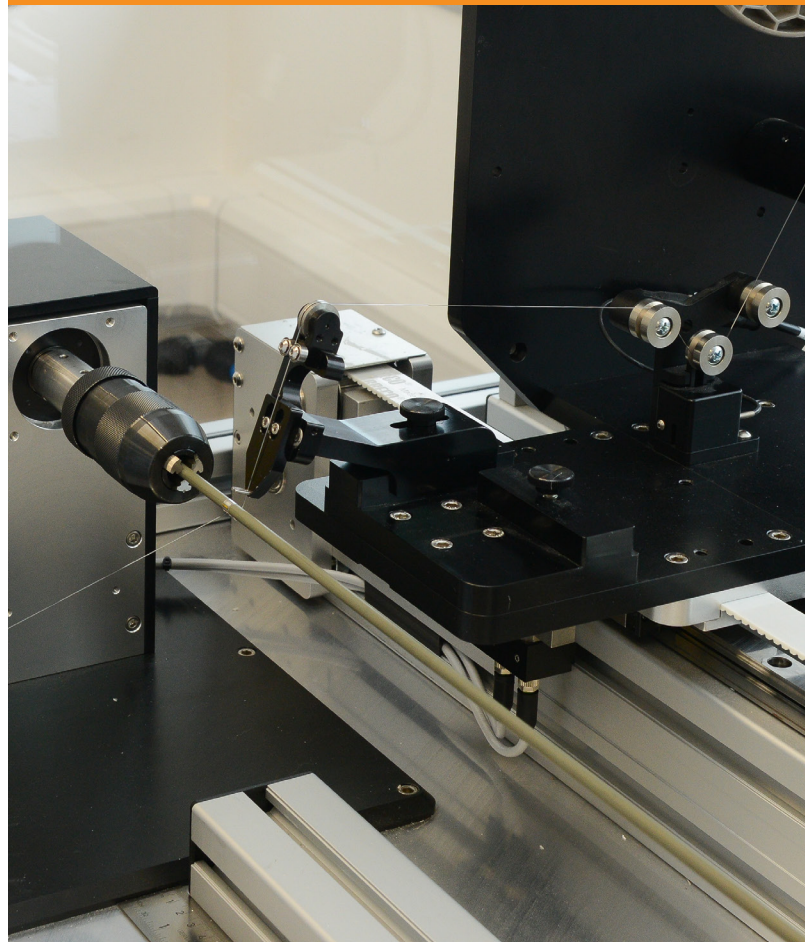
EARLIER MANUFACTURING INSIGHT

Bring design for manufacturability considerations into development before critical design choices are locked.

A CLEARER PATH FORWARD

Connect early work with TE Medical's broader component, sub-assembly and manufacturing capabilities as the program progresses.

**THE GOAL IS NOT SIMPLY TO
MAKE A PROTOTYPE. IT IS
TO MAKE BETTER-INFORMED
PROTOTYPE DECISIONS WITH
THE NEXT STAGE IN MIND.**



WHY PROPELUS PROTOTYPE CENTERS?



Dedicated prototyping environment

Centers, equipment and teams focused on prototype development.



Manufacturing relevance from the start

Equipment and processes selected to reflect future manufacturing requirements.



One connected global team

Expertise drawn from across the network, not one location alone.



Components through complete assemblies

From individual components to assemblies and more complete device solutions.



Access to wider TE expertise

A dedicated entry point into broader TE Medical capabilities.



Programme IP protection

A collaborative model designed to protect programme-specific intellectual property.



FROM CONCEPT TO COMMERCIALIZATION

PROPELUS Prototype Centers can support different entry points and development needs. The path is tailored to the maturity of the design, the evidence required and the likely future manufacturing route.



CONCEPT GENERATION

- Concept prototypes and initial testing
- Preliminary cost modeling



DESIGN FEASIBILITY

- Functional prototypes and testing report
- Design freeze specification
- Estimated unit cost
- Draft product risk assessment
- Detailed commercialization proposal



COMMERCIALIZATION & RAMP

- A stable source of product supply
- Validated manufacturing line
- Commercially ready
- Product ramp



DESIGN VERIFICATION & VALIDATION

- Verified product design freeze specification
- Product and packaging validations
- Risk assessment documentation
- Technical file/design history file
- Clinical validation report



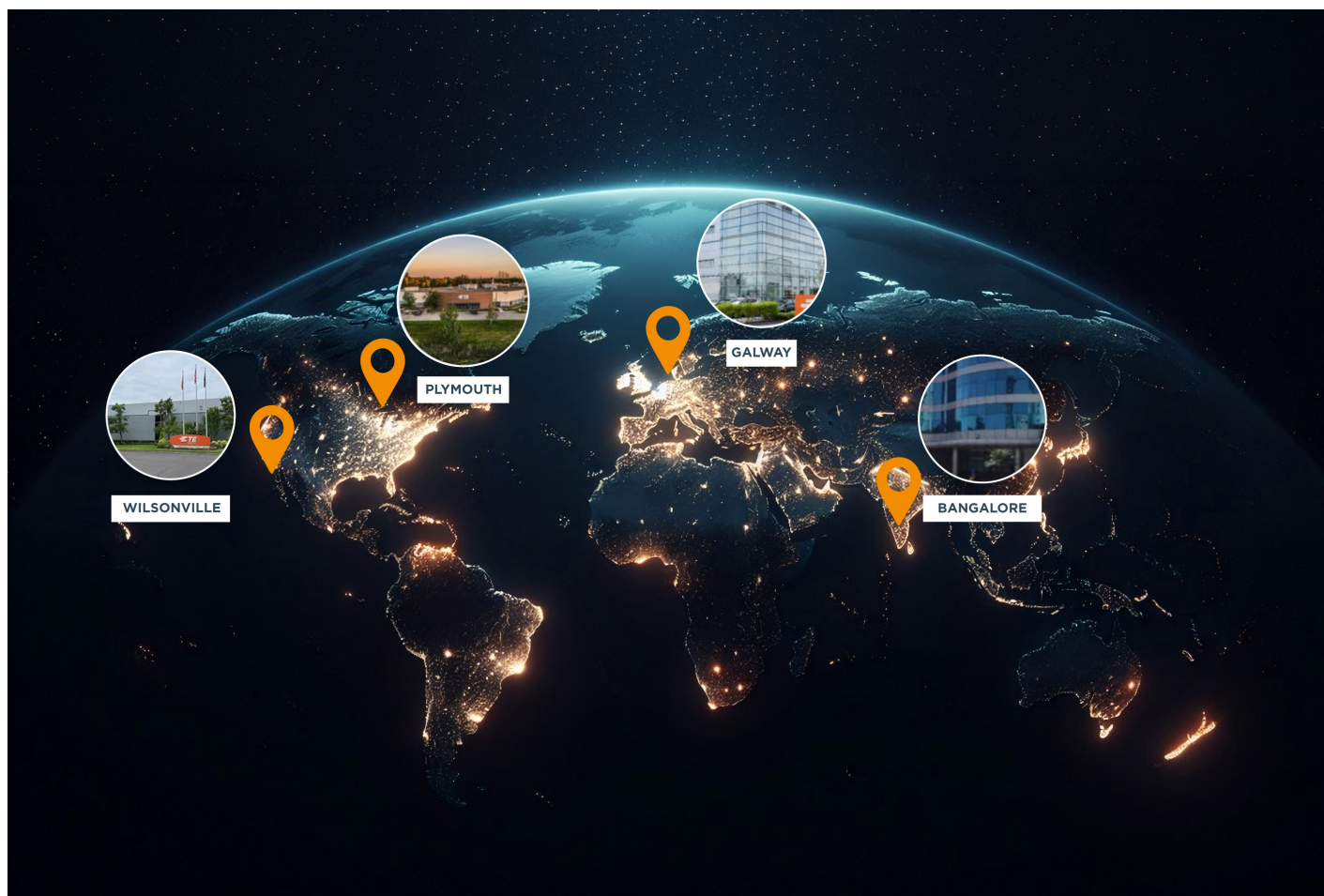
HIGH VOLUME MANUFACTURING

- Steady state manufacturing
- Supply chain management
- Continuous improvement projects



PROTOTYPE WITH FUTURE MANUFACTURING IN MIND

Four connected locations bring together specialized development expertise, dedicated environments and access to TE Medical's broader manufacturing network. The locations are differentiated by capability, but connected through a coordinated development model.



DEVELOPMENT CAPABILITIES ACROSS THE NETWORK

The network brings together capabilities that can support complex medical device component and assembly development. Availability is project- and location-dependent.

CATHETER DEVELOPMENT AND DESIGN FOR MANUFACTURABILITY

- Catheter and shaft development
- Prototype refinement and assembly development
- Design for manufacturability collaboration
- Simulation and functional testing support

SMART CATHETER AND ELECTRICAL INTEGRATION

- Conductor and cable design
- Connector and termination integration
- Sensor integration
- Electrical and mechanical device testing

ENGINEERED METAL COMPONENTS AND ADVANCED PROCESSING

- Metal shafts, wires, hypotubes and engineered components
- Laser processing, welding, grinding and cleaning
- Braiding, coiling, reflow and annealing
- Specialty needles and related assemblies

POLYMER AND ADVANCED ASSEMBLY DEVELOPMENT

- Polymer extrusion and tubing
- Braided and coiled shaft assemblies
- Heat shrink, pull-wire and fine-wire assemblies
- 3D printing and selected advanced assembly processes

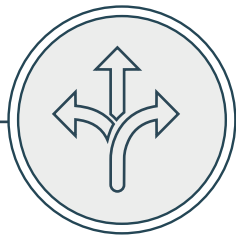


PROTOTYPE WITH SCALABLE MANUFACTURING IN MIND

Unlike standalone prototype providers, **PROPELUS Prototype Centers** are supported by TE's vast manufacturing capabilities including polymer extrusions, hypotube processing, laser welding and cutting, fine wire electrical cable design and assembly and extensive catheter manufacture technologies.

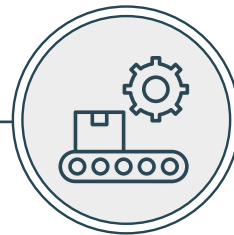
That connection helps development teams bring manufacturing considerations into earlier conversations. As a program progresses, TE can involve the relevant teams to assess potential component supply, assembly development, pilot readiness and manufacturing pathways. The aim is a more coordinated transition, with fewer late-stage handoffs and a stronger line of sight from early development to future scale.

DEDICATED PROTOTYPE CENTERS + ENGINEERING EXPERTISE + COMPONENT AND SUB-ASSEMBLY CAPABILITIES + MANUFACTURING KNOWLEDGE



DEVELOPMENT FLEXIBILITY

Support can range from rapid conceptual samples to iterative co-development and more defined, specification-driven prototype programs.



PRODUCTION RELEVANCE

Prototype choices can be considered alongside the processes, materials and controls that may matter later in manufacturing.



BROADER TE MEDICAL ACCESS

Teams can connect with relevant component, sub-assembly, testing and manufacturing capabilities as program needs evolve.



COORDINATED CONTINUITY

Earlier alignment can help reduce the disruption of transferring knowledge between disconnected development and production partners.

LET'S BUILD WHAT'S NEXT

Whether you are evaluating an early concept, refining a prototype or preparing for future scale-up, PROPELUS Prototype Centers connect your team with specialized engineering expertise, dedicated development environments and manufacturing insight.

BRING US THE DEVELOPMENT QUESTION. TOGETHER, WE CAN DEFINE THE PROTOTYPE PATH THAT HELPS YOU MOVE FORWARD WITH GREATER CLARITY.

Talk to a Prototyping Expert
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