Flawless implementation. Expert support.

Davis-Standard is recognized globally as the leader in high-performance converting and extrusion systems. But our capabilities go far beyond our equipment. They extend to our professional training experts, laboratory personnel, design engineers, and hands-on field engineers who work with you every step of the way. Your success is our success.

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Where your ideas take shape.

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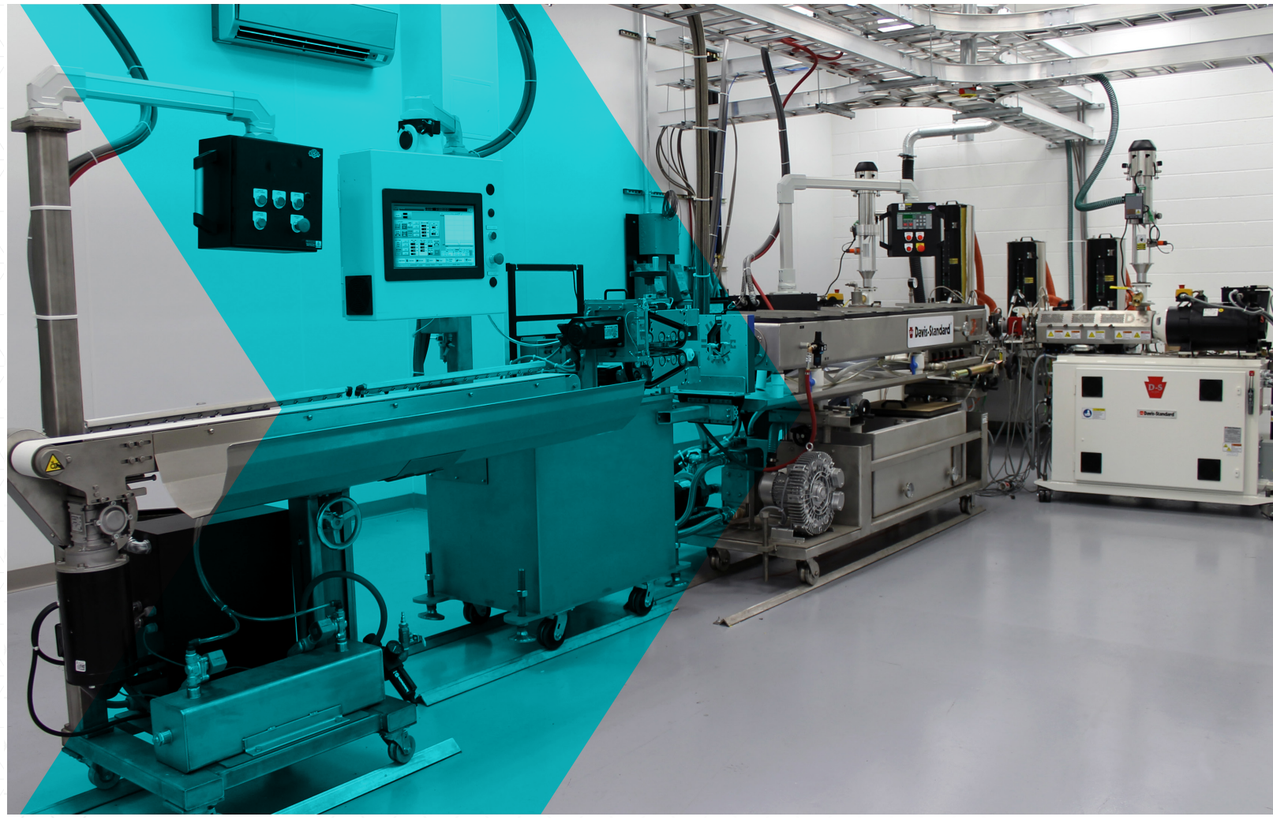
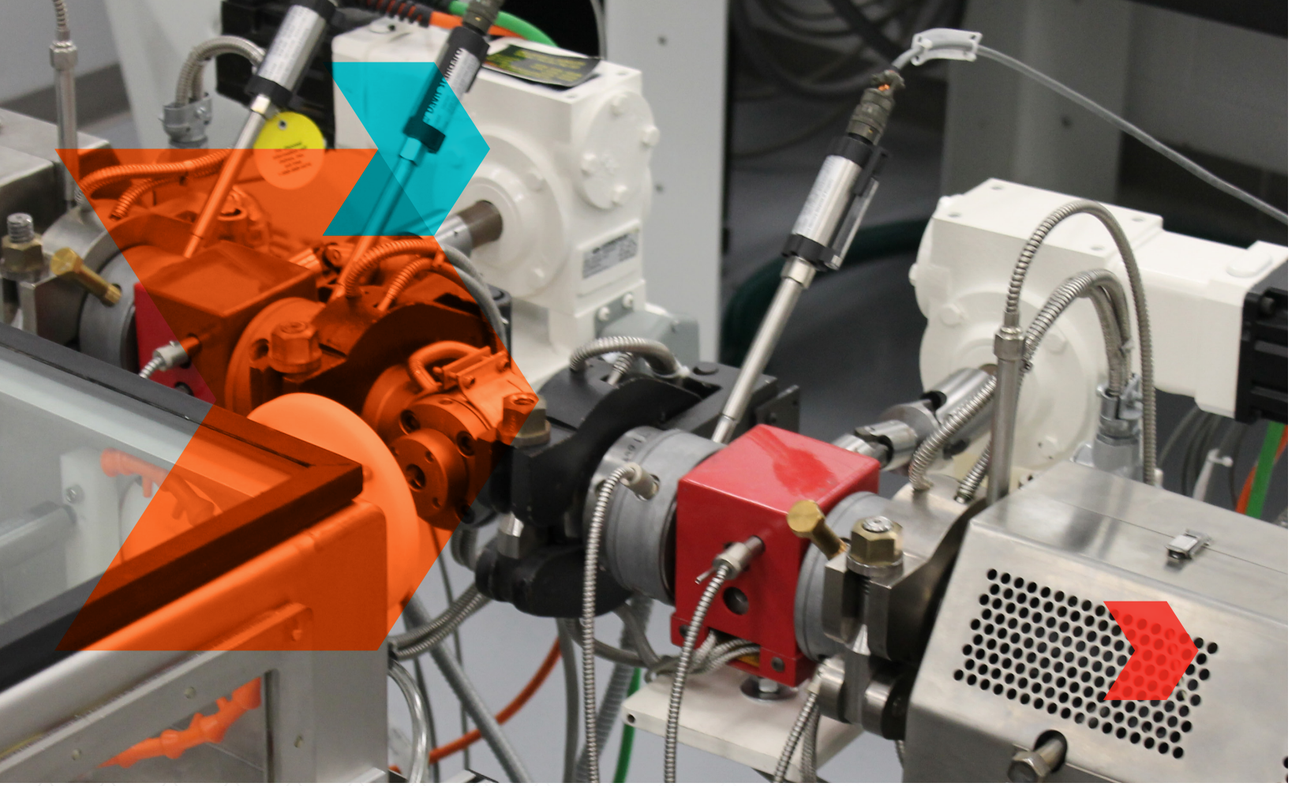


Medical Tubing Systems



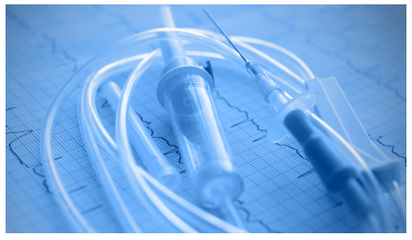
The global market for medical tubing continues to grow as it supports the medical device market. The applications for medical tubing continue to grow as access to healthcare improves across the globe. Davis-Standard's medical tubing equipment is engineered to provide the performance and versatility you need to satisfy the market's most demanding requirements.

You have to ensure quality and efficiency in every aspect of your business. Davis-Standard can help. Our equipment is engineered and optimized for the competitive medical tubing market where high-quality, reliable production is critically important.

APPLICATIONS

Davis-Standard provides turn-key tubing systems to produce a variety of tubing with extruder output ranges up to 700 lb/hr (315 kg/hr) and line speeds up to 800 fpm (240 mpm). Running multiple materials including: FPVC, polyurethane, nylon, PEBAX and FEP.

- Microbore tubing
- Alternate Polymer®
- Multi-lumen catheter tubing
- Endotracheal and tracheotomy tubing
- X-ray opaque striped tubing
- Fluid delivery and drainage tubing
- Bubble tube with funnel
- Taper tube
- Cannula tube
- Pipette tube
- Multi-layer tubing



MEDICAL TUBING LAB LINE

Davis-Standard's Technical Center is empowering customers to turn innovative medical tubing concepts into reality. The company's R&D line is engineered for end product development of small, tight tolerance tubing used in medical applications. Customers are able to test new resins, make parts for proof-of-concept, and conduct downstream R&D prior to making a large capital equipment investment. The line is also situated in a dedicated, climate-controlled area, offering a cleanroom environment for trials.

The line features two direct drive interchangeable-barrel MEDD extruders in 1-inch (25mm) and ¾-inch (19mm) 24:1 L/D sizes, enabling a full range of product development opportunities. The MEDD is Davis-Standard's premier compact extruder optimized for clean room environments with efficient operation and a replaceable feed section liner. The line also incorporates Davis-Standard's patented alternate polymer process technology, with all components being monitored and controlled by our EPIC® III control system.

ADVANTAGES AND CAPABILITIES

- Enclosed, ventilated and air-conditioned space
- EPIC® III control and process data collection
- Mono and coextrusion capabilities
- Alternate polymer capabilities
- Bump/taper tubing capabilities
- Able to process common thermoplastics (PE, PP, PA, TPU) as well as high temperature polymers (PEEK, PEKK and others) including fluoropolymers (FEP, PFE, ETFE and others)
- Highly instrumented extruders and extensive screw inventory
- Desiccant drying capabilities, up to three resins simultaneously
- Melt pumps with Servo drives
- Multi-lumen and bump tubing capabilities
- Vacuum sizing capabilities
- Laser and ultrasonic gauging including trim control; two gauging systems
- Dual servo belt puller capable of 250 fpm
- Six-foot belt conveyor for sample collection
- Space for customer-supplied equipment (coiler, payoff)
- Product development including microbore, multi-lumen and catheter tubing

1-inch MEDD extruder with DS-eVUE controls

HPE horizonal extruders

HPE adjustable extruder

3 1/2-inch 24:1 Super Blue® extruder with discrete controls