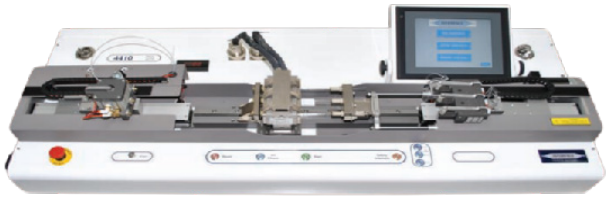
BFM-4410-3x

COMPUTERIZED BALLOON FORMING MACHINE

The Interface Model BFM-4410-x3 Computerized Balloon Forming Machine is a bench-top system, designed to handle a wide range of tubing sizes and materials. This includes materials such as Polyethylene (PE), Polyvinyl chloride (PVC), Polyurethane (PU), PET and Polyimides, and amides (Nylons). The BFM-4410 -3x provides the capability to form up to three balloons per cycle, increasing throughput.



KEY FEATURES

- Capable of producing the most extensive range of balloons in diameters and lengths (0.5 to 52 mm x 0.5 to 360 mm)
- Ability to produce many unique shapes (cylindrical, spherical, oval, conical, stepped, tapered, and more)
- Accurate and repeatable results to produce high-quality catheter balloons
- Ability to form 1, 2, or 3 balloons in one cycle (at one time).
- If one balloon bursts the other(s) will not be affected.
- Easy setup and daily operational performance
- Reduced footprint - one BFM replaces three
- High-efficiency triple water jacket for uniform heating and cooling
- High-precision flow and pressure control during balloon forming
- Modifying blow-molding processes to control multiple barrels simultaneously unlike any other system sold for med-device balloons
- Repeatability of multi-barrel system so all balloons could be included in the same lot
- Reduces the number of balloon forming machines for large-volume products/product codes
- Designed to handle a wide range of tubing sizes and materials including Polyethylene (PE), Polyvinyl chloride (PVC), Polyurethane (PU), PET and Polyimides, and amides (Nylons)
- Provides the capability of selecting all balloon-forming parameters and automatically controlling the sequence and timing of up to twenty-four steps in the balloon-forming process

KEY MECHANICAL FEATURES

The Interface Catheter Solutions BFM-4410-3x uses a stretch blow mold process to stretch polymer-based tubing under pressure and at an elevated temperature in a biaxial fashion, both longitudinally and radially, while performing real-time balloon forming profiling. Temperature and pressure settings vary depending upon balloon diameter and material used. The formed balloon is cooled during the final forming process while still maintaining a high internal pressure to set the desired dimensions. The BFM-4410-3x is simple to program and provides the capability to customize and store balloon forming parameters for repeatable and consistent quality results.

- Precision Molds – Excellent thermal conductivity to guarantee uniform and fast heating and cooling for difficult-to-form balloons
- Water Jackets – Uniform and fast heating and cooling
- Axial Stretch Feature – Primary stretch generates uniform body wall thickness; secondary stretch thins cone and neck area
- Tubing Chucks and Clamps – Firm grip during the stretch portion of the cycle
- Pressure Control – Accurate control of gas pressure and flow into the balloon for optimal forming
- Quick Release Bracket – Simplifies water jacket installation and exchange