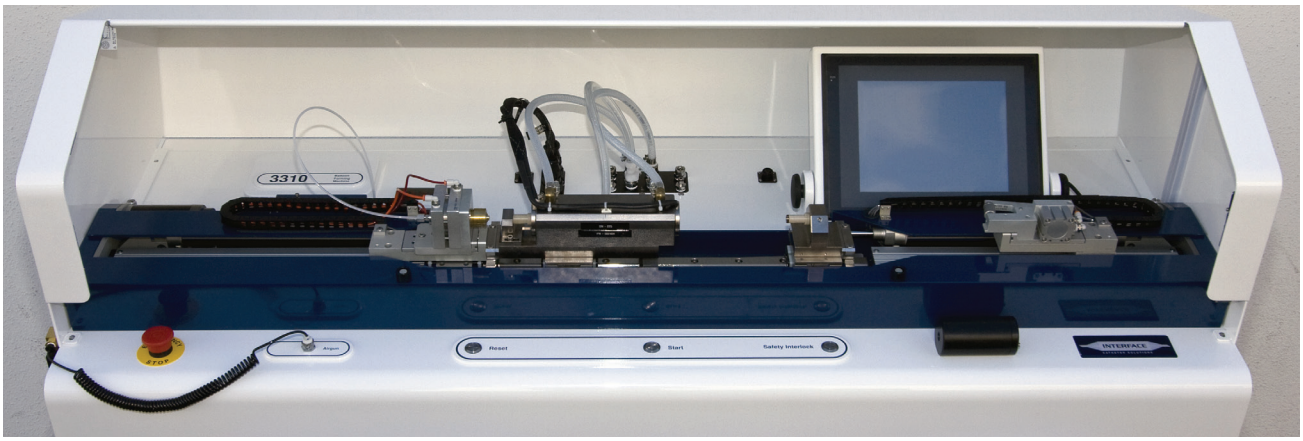
MODEL BFM-3310

COMPUTERIZED BALLOON FORMING MACHINE

INTERFACE
CATHETER SOLUTIONS

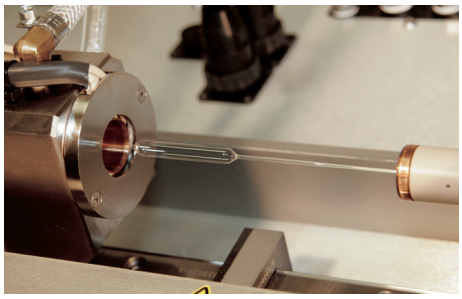


NEXT-GENERATION MACHINE SIMPLIFIES SET-UP AND PROVIDES ADVANCED PROGRAMMING OPTIONS AND CONTROLS

- Capable of producing the most extensive range of balloons in diameters and lengths (0.5 to 50 mm x 0.5 to 250 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

DESCRIPTION

The Interface BFM-3310 Balloon Forming Machine is a computer-controlled system that expands upon a continued standard of excellence with ever-increasing capabilities and options. The BFM-3310 is a bench-top system designed to produce a variety of high-strength polymer balloons. The balloons are formed from precision extruded balloon tubing inside a beryllium copper mold. The BFM-3310 provides very accurate and repeatable control for processing high-quality balloons with tight tolerances in an extensive variety of sizes and shapes.



BFM-3310 EXCLUSIVE FEATURES

The BFM-3310 machine is setting industry standards and raising the bar for balloon-forming performance with an impressive list of new features.

- Next generation Programmable Logic Controller (PLC) expanding overall programming controls
  - Color LCD touch-screen display with tilt adjustment
  - Real-time control and centralized display for all functions and parameters
- Quick Release Brackets for rapid exchange of water jackets
- Convenient Ethernet and USB port access
- Exceptional storage capacity to support 100 balloon programs
- LAN communication
- Top panel access to circuit breakers and service panel access to pressure controller for easier calibration
- Tiered level security:
  - *Top-level* access includes all balloon production parameters and limit settings for mid-level access
  - *Mid-level* access sets balloon production parameters based on allowed limit settings
  - *Low-level* access to preset balloon production parameters only
- Heater current and water tank temperature monitors with alarms to safeguard production yields
- Safety compartment for cooling circuit
- Programmable PID settings with auto tune built-in for individual molds are now easily uploadable and downloadable to simplify set-up and provide repeatable results

OPTIONAL FEATURES

- Parison deionizer | Light curtain safety cover | Bar code scanner

MODEL BFM-3310

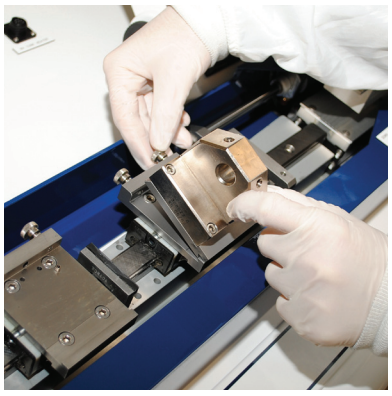
COMPUTERIZED BALLOON FORMING MACHINE

INTERFACE
CATHETER SOLUTIONS

HOW IT WORKS

The Interface BFM-3310 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-3310 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



Quick Release Bracket
Standard Feature for BFM-3310

SPECIFICATIONS	
Standard Model (110V)	Size range dependent on diameter and length (range of sizes based on water jacket availability) Diameter: 0.5 to 6 mm Length: 0.5 to 200 mm Diameter: 6.5 to 18 mm Length: 1 to 85 mm Diameter: 18 to 50 mm Length: 1 to 75 mm 110V, 60 Hz Up to 1,700 Watts
High-Power Model (230V)	Full size range including larger diameter and high pressure balloons Diameter: 0.5 to 50 mm Length: 0.5 to 250 mm Includes high-pressure mold close 230V, 50Hz/60Hz Up to 3,300 Watts
Dimensions:	64" long x 22" wide x 21" high 1625 mm x 560 mm x 535 mm (23" high with safety cover) (585 mm with safety cover)
Weight:	≈300 lbs (135 Kg)
Materials:	Nylon, PEBAX®, polyurethane, PET, PE, polyamides, etc.
Forming Pressure:	Up to 1,000 psi (6.89 MPa) dry nitrogen
Compressed Air:	80 to 120 psi (0.55 to 0.83 MPa)

27721 La Paz Road • Laguna Niguel, CA 92677 • Phone: 949.448.7056 • Fax: 949.448.7016 • www.interfaceusa.com • info@interfaceusa.com

CE