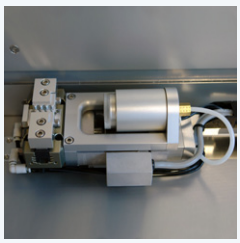
BW-TEC
ENGINEERING AUTOMATION CONSULTING

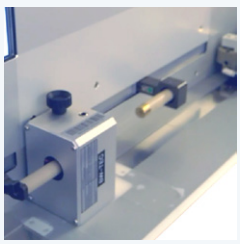
BALLOON FORMING MACHINE 1945

This **Balloon Forming Machine** is designed to produce a variety of plastic balloons.
The electrical heated stretch blow molding process allows the production of different balloons for angioplasty and other medical applications.
The balloon is formed in a three part mold of which the right side is automatically removed after the balloon is formed.

Balloon mold diameters between 1.5 to 40 mm and the balloon lengths from 10 to 300 mm are possible.
The linear movement necessary to form the balloon controlled by digital input or by stretching force feedback up to 400 N.

Heating Block


Force Measurement


Right Side Mold Removed

Technical Specifications

- force controlled axial movement up to 400 N
- up to 150 balloons per shift
- balloon diameter: ∅ 1.5–40 mm
- balloon length: 10–300 mm
- high power heating block connection with barcode scanner for serial number detection
- process temperatures: 20–250 °C (68–482 °F) cooling with external chiller
- process time: 2–5 min
- pneumatically actuated fasteners are used for rapid product loading time
- process pressure: 0–50 bar (0–725 psi)
- Low pressure system: 6–8 bar (87–116 psi) for product fixation
- linear stretching way: left 400 mm, right 500 mm (minus heating block length)
- 3-phase stepper motors
- easy to use interface with BW-TEC HMI on touchscreen
- PLC controller and network compatible PC for HMI and data management
- dimensions (L x W x H): 1500 x 750 x 1500 mm
- weight: 120 kg
- power: 110/230 VAC
  2000 W

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