

Balloon Forming Machine BF-209

The BF 209 sets new standards in the cost-effective production of balloons. A number of balloons can be reproducibly produced in succession with a single insertion of the tube.

The BF209 can be equipped with a second balloon forming unit to increase productivity.



The BF-209 allows reproducible processing of longer tubes for the first time. This enables cost-effective production of large quantities of different balloons. A number of balloons are produced from one tube in a continuous process. After blowing the balloon, the balloon is automatically unloaded and at the same time a new tube piece is drawn into the mold. This process can be repeated up to a hundred times after a one-off setting. The length of the chain is essentially defined by the balloon process, and is generally in the region of 4-100 balloons per tube.

The mold of the BF-209 is heated by means of infrared heating, which enables quick and precisely reproducible heating of the balloon mold. The infrared heating of the BF-209 is arranged radially around the balloon mold, enabling temperatures of over 300° C.

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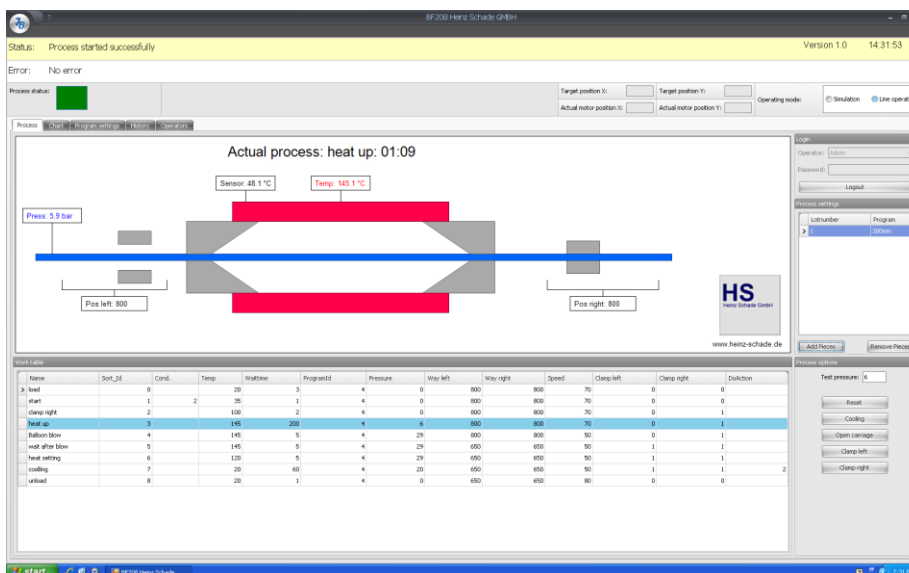
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The useful length of the balloon mold can be extended in 25 mm intervals, so that balloons with an overall length of up to 60 mm and a diameter of up to 50 mm can be manufactured as standard, without any modification to the balloon forming machine.

The balloon mold of the BF-209 can be exchanged quickly and easily at any time. Balloon molds made from different materials such as **glass, metal and plastic** can be used. This allows specific utilization of the advantages of the respective balloon molds and guarantees a high level of flexibility in the balloon process with just one machine, depending on the relevant requirements.

Material is drawn out of the balloon cones during the process by the two individually controlled, programmable stretching units; this results in a smaller wall thickness and additional tapering of the balloon sleeves. In addition, the BF-209 has a long stretching unit, which enables automatic loading and unloading of the balloons. It is thus possible to produce a number of balloons in a continuous process without an operator.

The software complies with the requirements of EN 13485 and the FDA and is adapted to the requirements of medical technology production. Program management, personnel management, a logbook and history are therefore already integrated into the program.



Clearly arranged software enables easy and reliable operation.

Simple and clear programming in secure mode.



Technical data

- Balloon materials:** PA, PET, PU....
- Balloon mold size:** Diameter from 1 to 50 mm
- Balloon length:** Standard 75 mm heating length Extension of 75- 275 mm in 25 mm sections possible (specify desired length when ordering).
- Balloon molds:** Metal, glass and plastic, closed mold, change time < 1 min
- Heating:** Infrared 600 W controlled by IR sensor, (1200W for the twin version). Temperature 30- 300°C.
- Cooling:** Air
- Mold pressure:** Electronic pressure controller 30 bar (50 bar optional). 4 mm tube for external supply.
- Drawing units:** Two programmable stretching units with 300 mm upward stroke and 500 mm downward stroke. Automatic pneumatic hose clamp on the drawing units.
- Control:** Controlled over Windows PC by including software.
- Dimensions without PC:** (L/W/H) 860 x 530 x 1800 mm, Weight: 120 kg
- Housing:** Clean room-compliant design, top made of stainless steel.
- Supply:** 110-230V 50/60 Hz 1000W approx. consumption 0.5KW/h, USB-Interface. Compressed air 6-8 bar filtered, approx. 100 l/min (intermittent), 6 mm OD
- Scope of delivery:** Basic unit, Software, Dongle, Operating Instructions English.
- Accessories:** PC-Win 7/8 for programming.
- Miscellaneous:** Special sizes and customizations on request.



Made in Germany

All specifications are subject to change without notice.

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