

Balloon Forming Machine BF 208-300

With the BF 208-300, it is possible to process pre-treated tubes in single-piece production (eg for PTA balloons) and to machine longer tubes in a continuous process. So even larger quantities can be produced economically.



Hardware

In case of single-piece production, the tubes are inserted into the one-sided opening mold. In chain production, the hose is pulled continuously through the mold.

Heating

The mold of the BF 208-300 is heated by an infrared heater, which allows a fast, precise and reproducible tempering of the balloon. The infrared radiators of the machine are arranged radially around the balloon form in order to achieve uniform heating.

Balloon mold

The usable length of the balloon mold can be expanded and shortened in 25 mm intervals, thus balloons with a total length of up to 300 mm and a diameter of up to 50 mm, without a necessary rebuilding of the balloon forming machine, can be manufactured.

In addition, the balloon mold of the BF 208-300 can be exchanged easily and quickly at any time. The use of balloon shapes made of various materials such as **glass**, **metal and plastic** is possible. This allows to use the advantages of each balloon mold individually, which ensures a high flexibility in the balloon process depending on the desired requirements with only one machine.



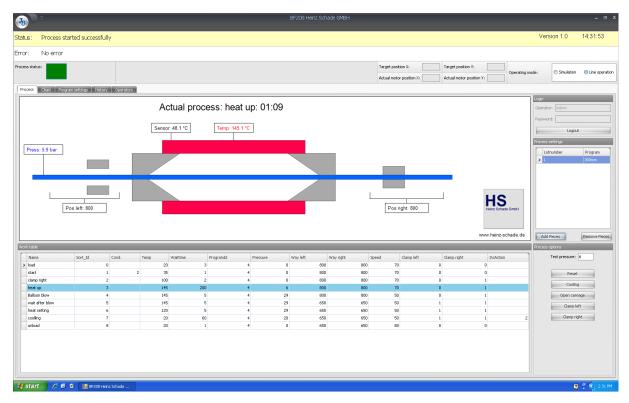
Balloon forming

Balloons are formed via an electronic pressure regulator, which also allows multi-stage processes. So, it is possible to implement test steps in the process. To ensure safe pressurization in the tube, the pressure port and the clamp are not coupled to the drafting unit. The two individually controlled, programmable drafting units draw material from the balloon cones in the process. As a result, a smaller wall thickness is achieved in the balloon cones and the balloon ends are additionally tapered.

The BF 208-300 also has a slide with a clamping force of up to 1000 N, which ensures safe closing of the balloon mold even at high pressure. The slide allows easy loading and unloading of large tubes and finished balloons.

Software

The software complies with the requirements of EN 13485 and the FDA and is adapted to the needs of medical technology production. Thus, a program management, employee management, a logbook and a history are already integrated in the program. The clear software enables simple and safe operation, as well as easy and clear programming in safe mode.





Technical specifications

Materials:	• PA
	• PET
	• PU
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Balloon mold diameter:	1 – 50 mm
Balloon mold length:	Standard heating length: 175 mm
	 Extension / shortening to 25 – 300 mm in 25 mm steps
	(specify desired length with order)
Balloon molds:	Metal
	• Glass
	Plastic
	Loading- and Closed mold
	Change time < 1 min
Heating:	Infrared 1500 W
	• 30 – 300 °C
	Control with IR sensor
Cooling:	air
Mold pressure:	Electronic pressure controller 30 bar (optional 50 bar)
	 4 mm OD tube for external supply
Draw units:	2 stretchable drawing units à 90 mm
	 Automatic pneumatic tube clamp on the drawing units
Control:	Windows-PC by included software
Dimensions without PC:	• L/W/H: 1300 x 500 x 300 mm
	Weight: 100 kg
Housing:	Clean-room compliant design
	Top made of stainless steel
Supply:	• 110 - 230 V
	• 50 - 60 Hz
	• 2000 W
	Consumption approx. 0,5 kW/h
	6 mm OD compressed air 6 – 8 bar filtered,
	approx. 100 l/min (intermittent
	USB-Interface

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Scope of delivery:	 Basic unit Software Dongle Operation instruction English
Accessories:	Balloon moldWindows PC for programming
Miscellaneous:	Special sizes and customizations on request



Made in Germany

All technical specifications and illustrations are subject to change without notice.