

Newsletter 01/2020

Bubble-free production and filling of hyaluronic acid gel



Vacuum mixer



Filling and closing machine

We recently delivered our fully automatic filling and closing machine Z-810 R-2 for RTU syringes, vials and cartridges to a Russian company. The machine fills syringes, vials and cartridges made of glass or plastic in the clean room with HA gel and closes them. Both processes are carried out under vacuum.

Already during the production of hyaluronic acid gel, the customer pays attention to a minimum entry of air bubbles. Our system solution is ideal for this requirement. With our vacuum mixer and our filling and closing machine, bubble-free mixing, squeezing and filling of HA gel is made possible. After the mixing process, the gel is transported to the filling system in the mixing container and safely fed under vacuum using a squeezing plate, so that no air is introduced.

Multiformat machine

- Filling and closing of nested containers with different formats like vials, syringes and cartridges on the same machine
- compact, modular design with easily accessible safety housing
- short and safe procedures when changing formats and cleaning
- tool-free format change

Fully automatic robot control

- validated robot control in automatic operation
- synchronized control of all filling and moving axes
- exact and efficient cinematics of all movements
- highly precision dosing, configurable vacuum values
- both foaming and gel-like products can be filled bubble-free with the bottom-up technology

Maximum productivity

- depending on the gel quality, i.e. flowability, filling capacities between 800 - 2000 syringes per hour are possible
- with water-like liquids the system output can be increased up to 6000 pieces / h
- interfaces to third-party systems are freely configurable

Quality control

- 21 Part 11 compliance upon need
- display of data statistics
- parameter- and data backup via the network or via a USB-stick
- validated fully automatic operation
- complies with the requirements of FDA and cGMP
- IQ/OQ-validation package available

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We exhibit on the following fairs

We would be pleased to schedule an appointment with you at our booth! Please contact us!



Pharmapack, 05. - 06. February 2020, Paris, France
Visit us at our booth. We are looking forward to seeing you!



Interpack, 07. - 13. May 2020, Düsseldorf, Germany
Visit us at our booth. We are looking forward to seeing you!



CPhI worldwide, 13. - 15. October 2020, Milan, Italy
Visit us at our booth. We are looking forward to seeing you!