

OPERATING PRINCIPLE

The filling cycle consists of determining the weight of an empty bottle (taring), a three phase filling (fine-fast-fine) until the actual weight has been reached, followed by a final re-weighing of the full container. The entire filling cycle is monitored and adjusted, if necessary, at each valve and each fill, so that the average amount of product put into the containers is precisely the same as the set value. In addition, the information required for the e-sign registration is processed and the data obtained in this way printed out periodically by the printer. The PC communicates with the PLC and the weight control unit. The printer and the PC are in a free-standing control desk. All relevant data can be read off the monitor of the PC - the average tare weight and standard deviation, followed by the average net weight and standard deviation. Analyses and any error messages will be seen clearly on the screen, even during the production process. After choosing the desired production or cleaning programme, all relevant machine settings are fully automated, by just a push of a button.

EXECUTION

The standard supply programme of the Dairyfill is very comprehensive. The system consists of the filling machine, the separate product feed unit and the free-standing control desk. In addition to the Stork automatic Cleaning in Place® system, the machine includes electric height adjustment for different sized bottles and is complete with a product discharge conveyor and collection area for reject bottles. The separate product feed unit contains little product and has automatic level and pressure controls. The free-standing control desk contains the control elements for the machine, including the PLC and frequency regulator. The unit also houses the PC with monitor and printer. The Dairyfill combined with sealer or capper, is available in a monoblock design. The machine can be fitted with the appropriate safety guarding applicable to the country of destination.

Dairyfill

Automatic weight - filling machine

**Stork Food & Dairy Systems B.V.****Stork Bottling Systems**

Ketelstraat 2, 1021 JX
Amsterdam, The Netherlands
P.O. Box 759, 1000 AT
Amsterdam, The Netherlands
Telephone +31 (0)20 6348911
Telefax +31 (0)20 6369754
E-mail: info.fds@stork.com
Internet: www.fds.storkgroup.com

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DAIRYFILL

After more than half a century of experience in filling dairy products world-wide, Stork is now introducing a new filling concept for the dairy industry. Stork's Dairyfill complies with the very highest contemporary industrial norms relevant to hygiene, constantly increasing capacities, quick change overs, thorough cleaning and reliable flows of information. Low operational costs and a high level of efficiency guarantee an exceptionally cost-effective investment.

The Dairyfill's most attractive attribute remains the fact that product give-away has been eliminated - an important argument in a branch of industry like dairy products. Profit margins are low and competition fierce, so every drop counts. Add to this the guaranteed calibrated checkweighs and the filling system of the future has just arrived.



MINIMUM CHANGE OVER TIME

The Stork Dairyfill handles a wide range of containers and closures of various materials and sizes. Quick release bottle handling parts minimize change over time and increase the productivity of the filling line.



ULTRACLEAN DESIGN

The Dairyfill has been designed with cleanliness and product protection in mind: all uncapped bottles are covered, the entire filling system is enclosed and protected with sterile air, the filling carousel can, optionally, be protected under a laminar air flow curtain.



REVOLUTIONARY CLEANING IN PLACE

Stork, leaders in CIP technology, developed for the Dairyfill, a fully automated, easy to use, CIP programme offering efficient mechanical and chemical cleaning action, including full sterilization routines.

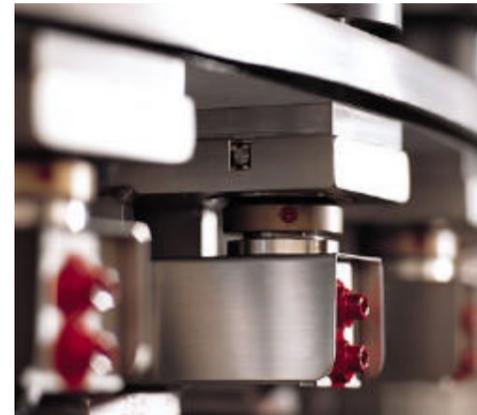


ACCESSIBLE WEIGHT CONTROL UNIT

The easily accessible WCU, safe above the wet filling area, controls and adjusts each individual filling cycle and interfaces with the PC in the operator's panel.

UNIQUE FILLING VALVES

The Dairyfill's filling valve, with its unique three phase filling system, is designed to handle the complete range of high and low viscosity dairy products.



HIGHLY ACCURATE LOAD CELL

The robust load cell construction with high levels of repeatability, accuracy and reliability is fully resistant to the demands of the modern dairy.

