

OPERATING PRINCIPLE

The filling cycle consists of determining of the weight of the empty bottle, automatic taring, a fast filling phase to a certain weight, fine-fill phase to the actual weight and, in the end, weighing of the full bottle.

For each filling valve and or each fill the whole filling cycle is monitored and, if necessary, adjusted, so that the average amount of filled product exactly reaches the set value. In addition, the required data regarding registration are processed and stored in the PC. The PC communicates with the PLC and the control electronics for the weighing process. By entering a number, the complete machine setting is chosen. All relevant data can be read on the monitor of the PC, such as the average weight of an empty bottle and the standard deviation, the average filling amount and the standard deviation. Analyses and any error messages are also perfectly shown on the screen, even during the production process.

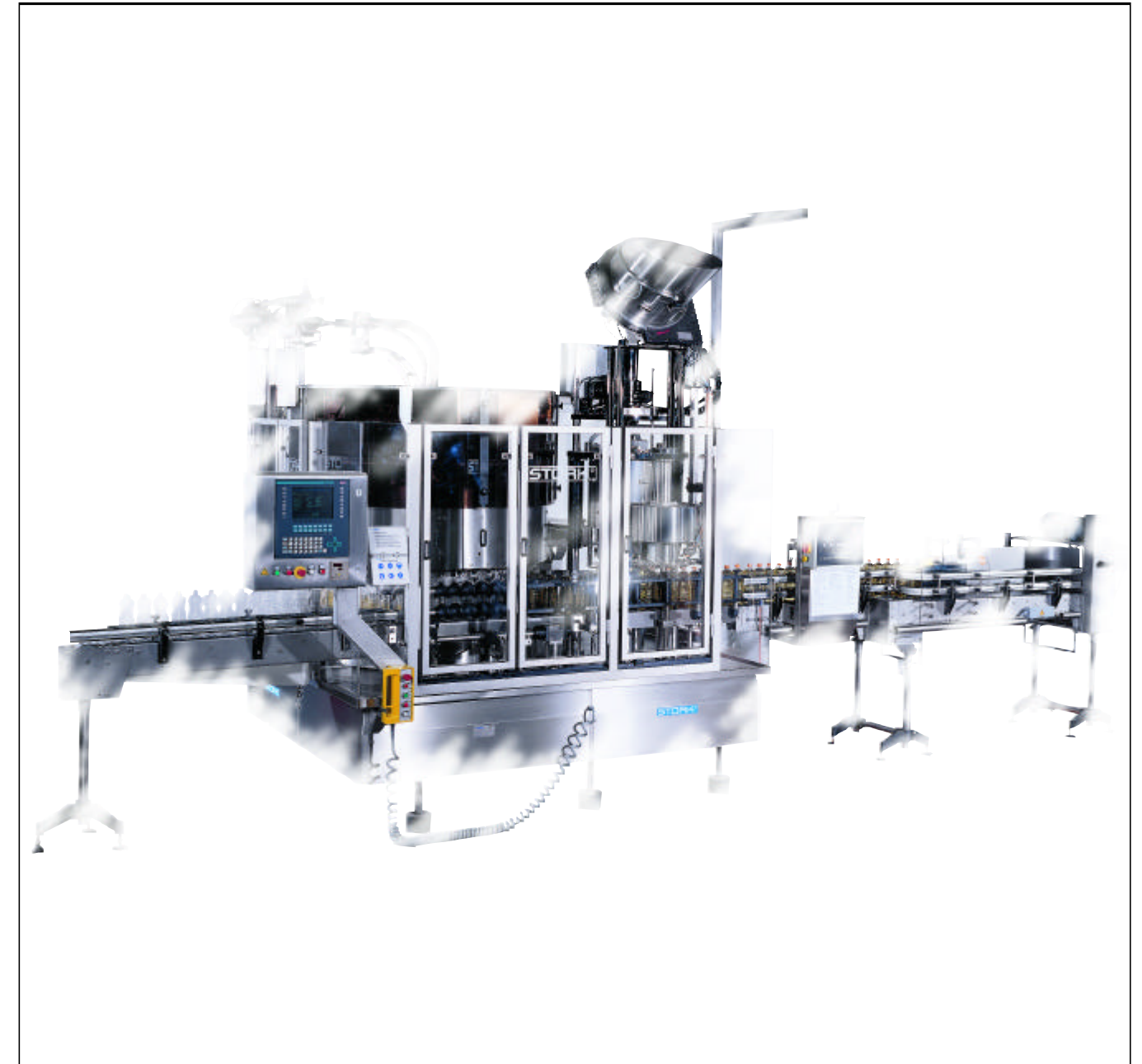
EXECUTION

The filling machine is equipped with a small filler bowl with an adjustable overpressure system. The control elements for monitoring the checkweighing procedures have been mounted "high and dry". The standard scope of supply is very comprehensive. All programmes are automatic and are controlled elements from the PC, which functions as a MMI. The system also includes a bottle reject system with a collection conveyor.

The freestanding control units includes the control, including the PLC. The Precifill is also available in a monoblock design and can be supplied with rinser, air blower and/or sealing machine.

Precifill

Automatic weight filling machine

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

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Stork Bottling Systems

PRECIFILL

Stork's latest range of weight filling machines meets the most stringent industrial requirements in matters of filling precision, maintenance and operator friendliness. Advanced flexibility, high capacities combined with optimum filling precision, absolute reliability and calibrated check-weighing are just a few of its prominent assets.

A low level of operational costs and a high degree of efficiency are characteristic features of the Precifill. There is no question of product waste thanks to the unerring filling precision for both maximum and minimum bottle contents. High and low viscosity products are effortlessly filled.



HIGHLY ACCURATE LOAD CELL

The robust load cells underneath the bottle carriers are very accurate and have been equipped with a patented overload protection, enabling them to continue functioning optimally even in extreme conditions. The complete weighing system carries the European standard approval for application as check-weigher within the management system for bottling under E-sign.



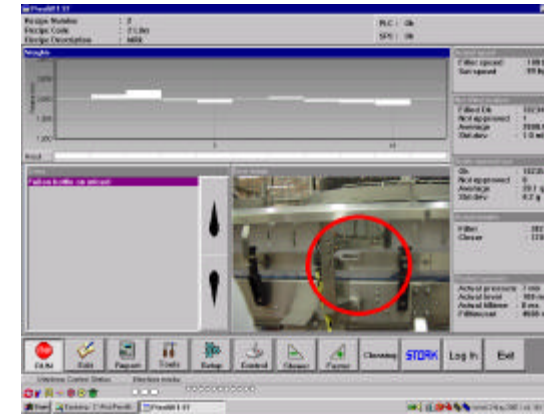
NEW : DOLPHIN® FILLING VALVE

The recently developed - optional - Dolphin® valve works without screen plates. This enables minimum foam formation, thus resulting in fast filling times, a stable flow of the product and optimum cleaning ability. The valve also handles liquid with pulp and does not drip.



FULLY AUTOMATIC CIP SYSTEM

Stork, trendsetters in CIP technology, have developed a fully automatic, easy-to-operate cleaning system for the Precifill. Depending upon the products to be filled up and the customer's wishes, a number of variants of the Stork CIP system can be supplied. CIP programmes can be set via the MMI.



USER FRIENDLY INTERFACE

The MMI (Man Machine Interface) generates a complete and orderly picture of the parameters of the whole system. Both historical and up-to-the-minute information is shown, such as filling accuracy, efficiency and breakdown. Moreover, the CIP process is visualised.



QUICKCHANGE® CONCEPT

The Precifill processes a very wide range of products and bottle sizes. The strikingly coloured QuickChange® bottle handling parts match the corresponding bottle sizes and can be changed extremely quickly without any tools being needed. The obvious result is an increased efficiency of the overall line.



UNIQUE BOTTLE POSITIONER

In order to place the containers exactly underneath the filling valve, each load cell has been equipped with a unique bottle positioner. For reversing the operation, this universal system only requires another height setting, so that selecting body formats have become a thing of the past.

