

Used ALFATEK line for soap - 2000 BPH

Machine type:	Complete Bottling Line
Ref:	LC648
Year:	2024
Speed:	2000 Bottles/hour
Condition:	In Storage
Formats:	2.5 L
Containers:	PET
Products:	Liquid soap

Technical details

Fill type:	Weight	Neck type:	28/410
Isobaric:	No	Safety features:	Yes
Manuals:	Yes		

Description

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Technical Specifications & Performance Data

This complete used bottling line integrates a dynamic weight filling monoblock and a linear self-adhesive labeling machine by ALFATEK with a fully electric single-cavity stretch blow molding machine by Meccanoplastica Iberica. Engineered for PET detergent and soap bottles, it delivers reliable performance for industrial packaging and bottle production.

- **Filler Output:** 1,500–2,000 bph (reference: 500 ml soap)
- **Labeller Output:** up to 2,500 bph
- **Blow Molder Output:** 1,000–1,200 bph
- **Container Formats:** 0.1L to 2.5L (examples: 0.1L, 0.5L, 2.5L)
- **Container Type:** PET bottles
- **Filler Bottle Range:** height 230–360 mm; diameter 58–110 mm; neck diameter 16–30 mm; neck height 40–75 mm; allowable fill level variation ± 30 mm
- **Labeller Type:** automatic stainless-steel linear self-adhesive application

- **Blow Molder Model:** MIPET-1P, 1 cavity
- **Blow Molder Max Container Size:** diameter 120 mm; height 350 mm
- **Preform/Neck:** inner diameter 18–42 mm; suggested neck 28/410
- **Conveyor Chain:** metallic straight chain, 82.5 mm
- **Blow Molder Dimensions (approx.):** 2900 × 1600 × 2064 mm; weight 2000 kg

Advanced Automation & Control Systems

The line combines precise weight-based or mass-flow-controlled filling with robust motion and temperature control for consistent container quality. Operators benefit from clear interfaces and quick adjustments.

- **Filler Control:** on-board PLC managing flow meters and all filling operations; dedicated software/hardware for product feed pump control
- **Operator Interface:** English pushbuttons (filler); integrated digital HMI on blow molder for settings and diagnostics
- **Automation Platform:** Siemens PLC and servomotors on blow molder; Siemens and GEFRA electric
- **Remote Support:** online modem for remote technical assistance
- **Electrical Supply (Filler):** 380V, 50Hz
- **Electrical Supply (Blow Molder):** 400 VAC, 50 Hz; installed power 35 kW; average power consumption ~12 kW
- **Working Plane Height (Filler):** 1000 mm ±50 mm
- **Conveyor Drive:** suspended driving head 0.37 kW with electrical panel

Production Line Integration Capabilities

Designed for seamless integration from in-house bottle production to filling and labeling, this second hand line offers efficient handling for detergent applications.

- **Inline Configuration:** single-cavity PET blow molding feeding the ALFATEK filler and linear labeller
- **Conveyors:** tailored conveyor kit with driving/return heads and controls for stable transfer
- **Format Changeover:** fast on the filler due to tankless design and no gripper-style handling
- **Label Application:** self-adhesive label compatibility on cylindrical or shaped PET bottles
- **Bottle Size Flexibility:** 0.1L–2.5L with broad diameter/height ranges

Machine Condition & Maintenance History

The equipment features 304 stainless-steel construction on the filler frame and 304/L stainless-steel product-contact parts, supporting long-term durability and easy maintenance. The filler includes a washing solution collection tank and automated CIP-friendly features for efficient sanitation during changeovers and routine cleaning.

- **Construction:** 304 stainless-steel framework; 304/L contact parts
- **Sanitation:** built-in washing solution collection and recycling provisions
- **Design:** tankless manifold minimizing product hold-up and startup waste

Operational Performance & Versatility

Optimized for detergent and soap bottling, the line supports PET containers with consistent weight or mass-flow-controlled filling and precise label placement.

- **Products:** detergents, soaps, and similar chemical household products
- **Filling Technology:** pressurized product feed; external filling method with optional pad valve slightly entering the neck for difficult shapes
- **Quality Consistency:** magnetic/mass flow meters ensure repeatable dosing
- **Oven Technology (Blow Molder):** preferential IR heating with individually adjustable lamps and height zones for uniform material distribution on oval/asymmetric bottles
- **Cooling Control:** preform neck air cooling preserves neck roundness and thread quality

Installation Requirements & Site Preparation

Utilities and site conditions accommodate both blow molding and wet-end operations, suitable for industrial packaging environments.

- **Electrical:** 380V 50Hz (filler), 400 VAC 50Hz (blow molder)
- **Compressed Air (Low Pressure):** up to 10 bar; ~30 m³/h (dry air)
- **Compressed Air (High Pressure/Blow):** 35–40 bar; ~160 m³/h (dry air)
- **Process Water (Cooling):** 3–5 bar; inlet 8–16 °C; cooling capacity ~9,000 Kcal/h
- **Space Reference (Blow Molder):** approx. 2900 mm (L) × 1600 mm (W) × 2064 mm (H)
- **Conveyors:** metallic 82.5 mm straight chain; integrated control panel

Safety Standards & Compliance Certification

Engineered to meet industrial safety and hygiene expectations for chemical and household product bottling.

- **Compliance:** CE safety standards declared for the blow molding system
- **Operator Protection:** guarded architecture and PLC-managed operations for safe handling
- **Hygiene & Materials:** stainless-steel construction and CIP-friendly filler design support cleaning and sanitizing requirements