



LIQUIDO

LINEAR FILLING MACHINE
WITH INNOVATIVE FLOW METERING TECHNOLOGY

SERIES
IDL/MDL

medium containers
food
cosmetics
chemicals
pharmaceuticals | english

BREITNER – flow meter technology offers significant advantages for the filling of liquid and pasty products. Since the entire product is handled through a simple, smooth-walled „tube system“, CIP / SIP cleaning of the product contact parts is achievable with the greatest effect and in the shortest possible time. It also allows enormous variability of filling ranges with optimum filling accuracy and no degradation over time due to mechanical wear.

THE CONCEPT

IMPLEMENTED IN REALITY

- volume sizes from 30 ml to 10 litres
- low viscosity to high viscosity media – such as
 - Food: Oil & vinegar, dressings, ketchup, mustard, mayonnaise, cocktail sauces ...
 - Cosmetics: Shampoo, conditioner, hair gels, creams ...
 - Chemicals: Plant protection products, petrochemical products, household cleaning products, solvents, fertilizers, ...BREITNER has the necessary experience
- 2 - 14 filling stations which may be individually switched on or off
- Output up to 9,000 containers / h
- 3 machine frame sizes (modular design)
- High productivity performance through very simple effective and repeatable format change (requiring no change parts)
- Maintenance-free and energy-efficient
- Abrasive products can be processed without wear
- Removable filling nozzle for bulk containers (option)
- Automatic filling tube guidance
- Follow-up volume control - highest filling accuracy

FLEXIBLE – NO FORMAT CHANGE PARTS - EFFICIENT



exemplary picture

PRODUCT SAVING

THE PRESSURE VESSEL – BUILT TO BEST HYGIENE DESIGN

- High repeatability
- Lowest possible fill quantity fluctuations by constant product pressure maintained in the pressure vessel
- Intelligent overrun control

DYNAMICS

CONTAINER TRANSPORT BY THE SIMPLEST METHOD

- Infeed container blocker by means of spring loaded latch
- Fast line speed for container outfeed: slow line speed during the filling
- Individually adapted transport speed to suit containers & products
- Easy to clean stainless steel conveyor belts (open base)
- "Pharmaceutical" conveyors (option)
- belt cleaning with spray nozzles or chain wash bath (option)
- Complete enclosure of the conveyor belts (option)

STABILITY

HIGHEST FLEXIBILITY WITH THOUGHTFUL HYGIENIC DESIGN

- Servo driven diving bridge with long travel (450 mm)
- Submersible diving bridge adjustable to optimise filling for all product/container combinations
- Exact filling nozzle positioning to fill level by fill quantity control
- Under-surface / bottom up filling for foaming products
- Fill valve situated directly at the base of the filling nozzle
- Bottle centering by means of the bottle neck
- Control of incoming and exiting bottles
- Protection device to avoid bottle neck contamination from product drips



CONTROL

ERGONOMIC AND EASY TO USE

- Logical and sophisticated machine control
- Graphic user interface and the operator adjusted user levels - allows infrequently used switches and parameters to be hidden
- Touch-screen display 26.5 cm (10.5 inches) - Main basic functions shown separately by illuminated buttons
- All parameters are stored in the formula / format (additionally secured on USB Stick)
- Notes and error messages in plain text
- User log-in via transponder (option)
- Design according to the latest Machinery Directive 2006/42/EC
- Service modem / router via VPN for any service cases (option)
- Switching to other languages (option)
- OPC Server Connection (option)

The machine control and the ergonomic design allows a variety of solutions for various containers and products to be run with properties that also allow for the shortest format and product changes.

Once set up for each product / container, the respective parameters are saved in recipe format.

The menu for machine operation is simple, - infrequently required „buttons“ and parameters are hidden.

CLEANING IN PLACE

DISASSEMBLY WAS 'YESTERDAY'

- The product feed consists of a tube – hose system without any substantial moving parts
- No edges, domes, columns, or undercuts (Drain at the lowest point)
- Cleaning in container by 'vortex effect' or closed with collecting manifold (option)
- Rapid preparation for CIP / SIP
- Temperature and concentration interrogation of the cleaning medium in the feedback (option)
- Validated cleaning program with previously determined cleaning parameters

VERSIONS

ACCORDING TO YOUR REQUIREMENTS

- Hygienic and ultra-clean
- Laminar Flow
- Explosion protection according to directive 94/9 EC (ATEX 95)
- Canister stop pusher for large weights
- Individual canister position check (option)
- Simultaneous multi-product filling (up to 4 different products)
- 2-phase container filling
- Nitrogen injection before filling
- Vapour extraction from machine filling area



FEATURES

COST REDUCTION

- Only one size part (filler tube - length and diameter)
- Easy change of filler tube
- Recipe selection for change of production run (up to 200 recipes)
- During production, optimization option of the typical format parameters
- Tremendous flexibility for future products, formats, and CIP / SIP cleaning

AVAILABILITY - SERVICE - SOLUTIONS

BREITNER has built packaging machines for over 50 years for the liquid sector and has enormous experience.

This includes Filling and Closing machines for bottles/containers at output speeds from 10 to 360 per minute. It also includes ancillary machinery for the filling line such as unscramblers and feed-tables.

Our customers include the Cosmetics, Food, Chemical and Pharmaceutical industries worldwide.

From over 100 employees, approximately 20 technicians are committed to developing new technical solutions and innovations and bringing them to reality. CNC production machines and short ways to development are the guarantee for simple solutions. Programming, structure of the control panels and cabling all

takes place in-house. This includes continuous documentation for the standards, which ensures production capacity is quickly restored in the event of operator error.

To this day, machines that have provided over 20 years faithful service continue to operate and be maintained as before.

Through our design and manufacturing of machine parts, enclosures, software and self-assembly, we provide one-stop solutions and offer direct service.

Our mechanical and electrical technicians are the inspiration for each of your machines and are available for any assembly, training and maintenance required by you - we guarantee this.



CIP/SIP

VTR
Trigger

SERVO CAP

CAFI

CNC SYSTEMS