



CNC SERVODOS

LINEAR PISTON FILLING MACHINE
VOLUME OF 30 ML TO 1.0 LITRE
FOR FOOD, COSMETICS AND CHEMICALS

SERIES
KDS

STRONG LINEAR PISTON FILLER FOR LIQUID - AND SEMI-LIQUID PRODUCTS - WITHOUT FORMAT PARTS

For filling of viscous products such as honey, shampoo, oils or even jam with particulates. Of course, the machine may also be used for all other products.

Core piece of this filler is the servo controlled dosing drive. The pistons are guided by two ball screws. This ensures precise dosage double or multiple strokes are possible.

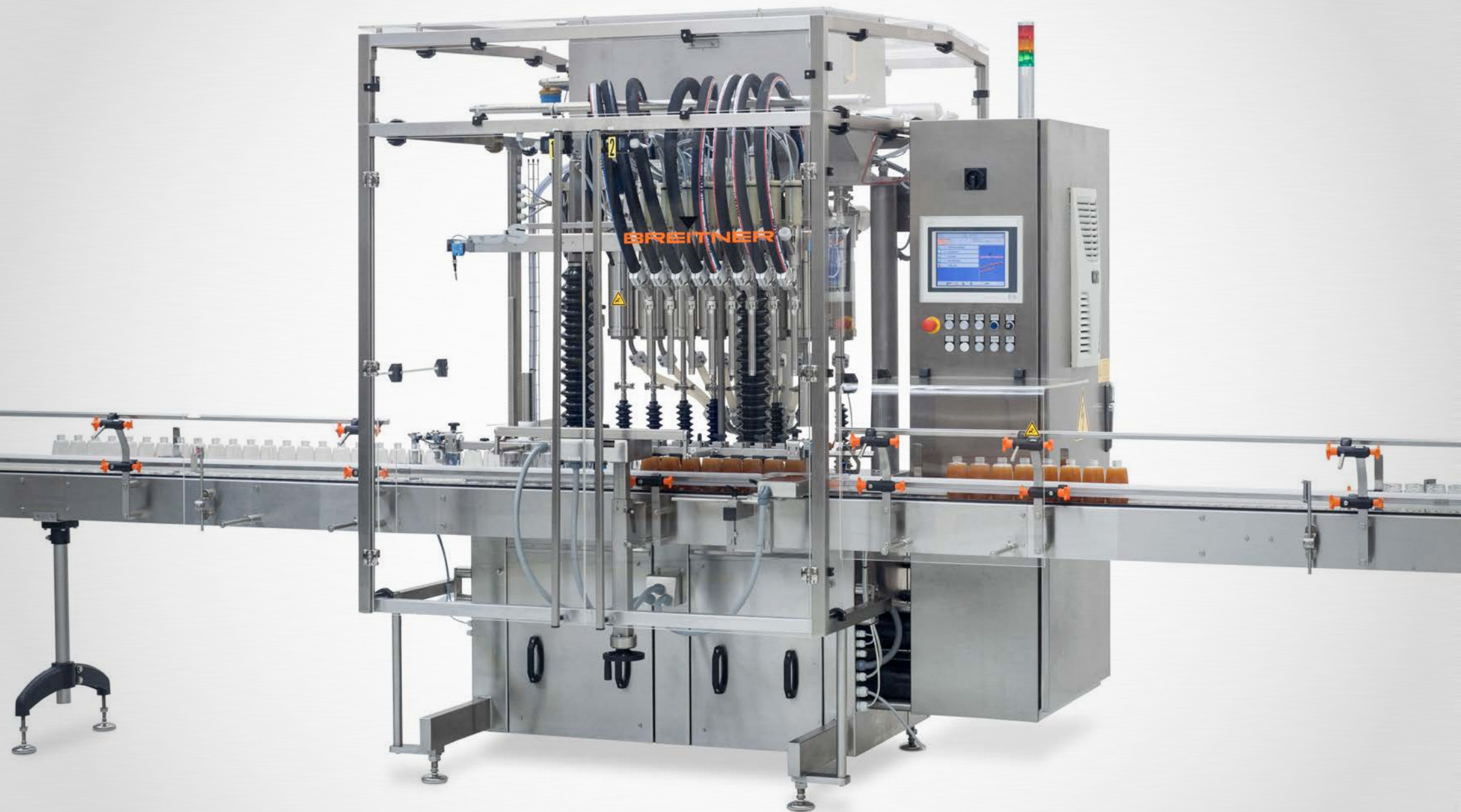
The dosing system is designed for high viscosity products, such as creamy honey. The cleaning of the machine, depending on your requirements, may be simple water rinse to fully automatic CIP cleaning with different media. The filling valves/pistons are thereby moved into an expanded cylinder area, so that the piston seals can be flushed from the rear. The filling nozzles are driven by another servo-motor giving precise positioning during the filling process. Depending on the product, the machine can be supplied with string cutters and / or filling tubes.

THE CONCEPT

BROUGHT TO REALITY

FILLING HEADS	2, 4, 6, and 8
VOLUME	30-1,000 ml (in multiple stroke up to 5,000 ml)
OUTPUT MAX	130 pieces / min.
FILLING	individual filling tubes or string cutters (pneumatically driven)
DIVING BRIDGE	300 mm travel (standard)
BACK CHAMBER LUBRICATION	water tank with sight glass (option)
FORMAT MEMORY	200 formats

INDIVIDUAL AND COST SAVING



exemplary picture

PRODUCT SAVING

THE PRODUCT FEED CONTAINER -
BUILT FOR THE BEST HYGIENE DESIGN

High accuracy is required when filling a balanced product stream. The filling hoses and intake ports are optimally sized and thus act without damaging the product.

The precision mechanics, as used in the tool industry, means that the piston moves dynamically exactly to the set position and maintains this precision through repeated operation.

RESULTS: A high dosing accuracy, - the machine operator can adjust accurately the fill target amount (adjustment amount = nominal quantity)

DYNAMICS

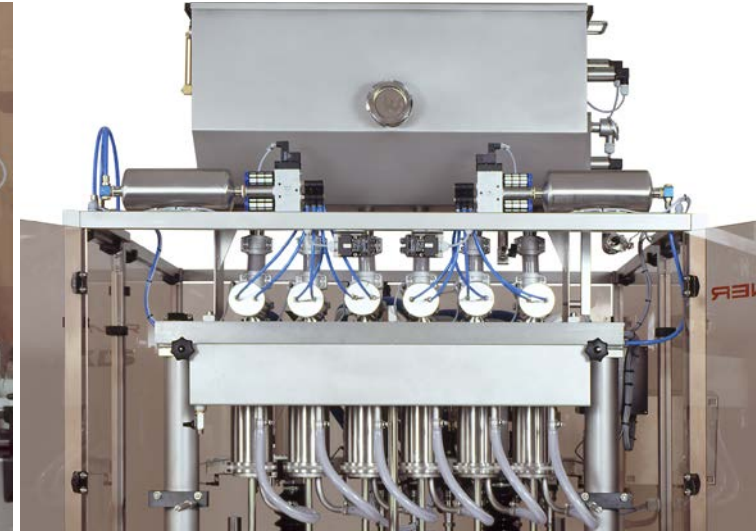
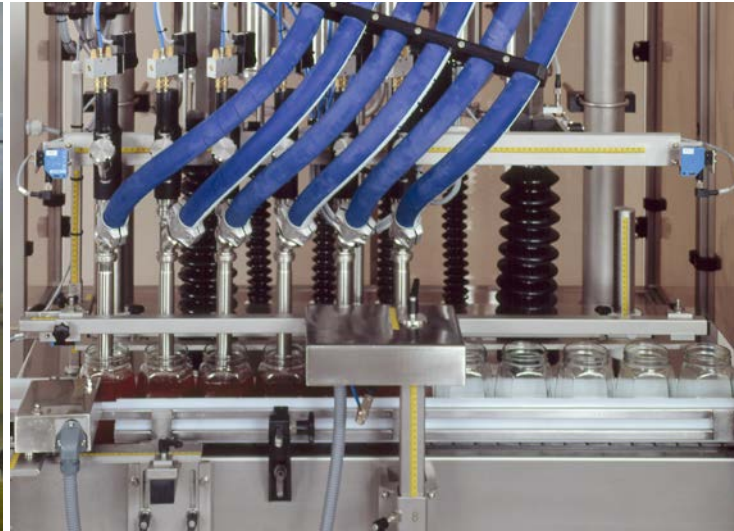
CONTAINER TRANSPORT MADE SIMPLE

- Stop valve with spring loaded latch on
- Dynamic conveyor speed
- Customized transport speeds to bottle and filling
- Easy to clean stainless steel conveyor belts (bottom open)
- Pharmaceuticals - conveyors (option)
- belt cleaning with spray nozzles or chain wash (option)
- Complete enclosure of the conveyor belts (option)

STABILITY

FLEXIBILITY MEETS THOUGHTFUL
HYGIENIC DESIGN

- Power Dive bridge with enormous travel (300 mm)
- Submersible bridge is format-dependent on optimum stroke set
- Exact filling nozzle positioning at the filling level through fill level scanning
- Bottom-up filling for foaming products
- Fill valve positioned directly to the bottom of the filler pipe
- Bottle centering by the bottle neck
- Control of leaking bottles
- Drip tray prevents product contamination of the bottle neck exterior



CONTROL

ERGONOMIC AND EASY TO USE

- logical and sophisticated machine control
- Graphical user interface and the operator adjusted
- user levels - allow you to hide not switches and parameters used
- Touch - Display 26.5 cm (10.5 inches)
 - Main Basic functions separately as an illuminated button
- All parameters are stored in the formula / format (on USB Stick additionally secured)
- Notes and any error messages in plain text
- User login 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. These properties result in the shortest format and product changes. Once optimized parameters for the production are stored in the machine memory The menu for machine operation is simple, rarely used "buttons" are hidden from the operator.

CLEANING IN PLACE

MANUAL CLEANING WAS YESTERDAY

- Hygienic equipment design
- Fully automated integration possible in your centralised system
- Rapid preparation for CIP / SIP
- Temperature and concentration feedback of the cleaning media (option)
- Validated cleaning program with previously determined cleaning procedures

VERSIONS

ACCORDING TO YOUR REQUIREMENTS

- Explosion protection according to directive 94/9 EC (ATEX 95)
- Individual bottle check (option)
- Transport pucks for unstable bottles
- Multi-colour filling (up to 4 different) and 2-phase filling in one container (option)
- Nitrogen injection before filling
- Source extraction and machine environment extraction



FEATURES

THE REDUCING COSTS

- Only one size part (filler pipe - length and diameter) or thread cutter
- Easy filling nozzle changeover
- „conversion „ by choosing the format (up to 200 recipes)
- During production optimization option of the format parameters typical
- Immediate restart without optimization phase
- Tremendous flexibility for future products, formats, and CIP / CIP 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

CAF
Control and Feed

CNC 32000 DOS