



CAPMOTION

CAPPING MACHINE
ON THE FLY SERVO CAPPER

SERIES
VSL

CLOSING OF MEDIUM AND LARGE-SIZED CONTAINERS

Unsealed canisters do not behave well when they are stopped for capping! This machine gently aligns canister neck and closure by means of BREITNER servo axis capping head and synchronized driven guide belts. This warrants high output without splashing or spillages.

BASIC FUNCTIONS OF THE MACHINE

The containers are transported by a conveyor belt into the machine and centered by width-adjustable speed synchronized guide belts. By use of a photo electric cell, the container opening is detected and the cap in the previously positioned capping head is brought to the container neck at uniform speed and the container then is sealed.

The vertical and horizontal motion is performed by two linear axis and thus offers optimum versatility to handle a wide variety of canisters / bottles.

1 Servo axis – CAPPING HEAD

- Spindle speed and torque electronically controlled
- High torque transmission
- Reverse rotation to avoid cross-threading when applying
- Asymmetrical caps can be combined with position sensors in correct orientation
- Checks for the set torque and the rotation angle

2 (Vertical) axis linear motor – STROKE CAPPING HEAD

- controls the stroke when picking up of the closure of the cap chute
- moves the slope of the closure - thread after

3 (Horizontal) axis linear motor – CAP PICKING AND CONTAINER SYNCHRONISING

- Parallel movement with the container (synchronized)
- After completion of capping rapid return to collection position of next cap

HIGH OUTPUT WHILE SPILLAGE-FREE



exemplary picture

FEATURES

REDUCING COSTS

- Optimum smoothness of the container transport, as no stopping arises
- All movements set by freely programmable parameters
- High performance with canisters and jerry cans
- Compact design
- Minimized number of format parts (tool-free changing)
- Quick and easy retooling
- „Parameters“ by selecting the memorised formats (up to 200 recipes)
- During production optimization possibility of format typical parameters
- Tremendous flexibility for future products and formats

FLEXIBILITY

IN THE MACHINERY

The capping covers a wide range of packaging sizes (e.g. 500 ml bottles to 40 liter canisters), the use of format parts is kept to a minimum.

A Servo driven capping head guarantees precise closure fitting and controls the result while applying the closure.

The torque can be changed during production and can be adapted to your requirements. Due to the electronic torque control, neither temperature variations nor wear have any influence.

PACKAGE DIMENSIONS

This machine allows maximum flexibility; with a huge canister height maximum of 400 mm and almost unrestricted length. You may rely on our years of experience with thousands of container shapes and dimensions installed.



SPECIFICATIONS

THE CLOSING MACHINE - BASIC MACHINE

MACHINE TYPE	VSL 5014
WORKING PROCEDURE	Continuous Motion
CAPPING STATIONS	1
ADDITIONAL STATIONS	not possible
DIRECTION FROM	left to right (optional left/right)
WORKING HEIGHT	900 mm

CAPPING STATION	
DRIVE	Servo Motor
TORQUE	0.3 to 3.5 Nm (higher torque on request)
SUPPLY	
ELECTRICAL POWER	3 x 400 V, N, PE, 4 kW
AIR	60 NL/min

PERFORMANCE

OF THE CAPPING MACHINE

Depends on product and packaging .
Maximum mechanical output up to 2,500 containers/h

VERSIONS

ACCORDING TO YOUR REQUIREMENTS

- Individual stainless steel - Conveyor belt sizes
- Further test stations
- Explosion protection according to directive 94/9 EC (ATEX 95) possible
- Nitrogen injection before sealing
- Source extraction and machine environment extraction



CONTROL

ERGONOMIC AND EASY TO USE

- Logical and sophisticated machine control
- Graphical user interface and the operator adjusted
- User levels - allowing infrequently used switches and parameters to be hidden from operator use
- Touch - Display 26.5 cm (10.5 inches)
 - Main 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
- Dynamics with adjustable start and stop - ramps
- User login via transponder (option)
- Cabinet in stainless steel design - sealed against aggressive atmosphere
- Design according to the latest Machinery Directive 2006/42/EC
- Service Modem/Router via VPN for remote service intervention (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.

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