

## Automatic filling and closing machine Minican Procombo



**for liquids**

**for pasty products**

### **Equipment:**

Indexing table with 12 or 16 stations  
1-4 Filling stations  
Application station for caps  
Cap sorting machine  
Closing station

### **Optionals:**

Application of droppers  
Application of rubber stoppers  
Laminar flow  
Check weigher  
Labelling machine and others

## Minican Procombo with integrated mixer



Output: up to 40/80/120 bottles/min  
Max bottle diameter: 80 mm  
Max bottle height: 250 mm  
Filling ranges: 0,1 – 1000 ml

Product contacting parts alternatively: stainless steel 316 Ti  
stainless steel 316 L  
Titanium, Hastelloy,  
plastics, ceramics

Bottle/jar infeed: via conveyor  
via rotary table  
via unscrambler

Filling alternatively by:	piston filler peristaltic filler gearwheel pump flow meter auger filler
Filling system:	fixed needle pneumatic diving nozzle servo diving nozzle swivel nozzle for bypass-filling
Sealing station:	conductive or inductive
Application of droppers/stoppers:	via vibration sorter
Supply of caps, alternatively:	manually vibration sorter disk sorter turbine sorter step starter
Feeding of spray pumps and triggers:	with tensioning device for the tube
Cross-tara-weighing	inside the starwheel, either in one or two steps

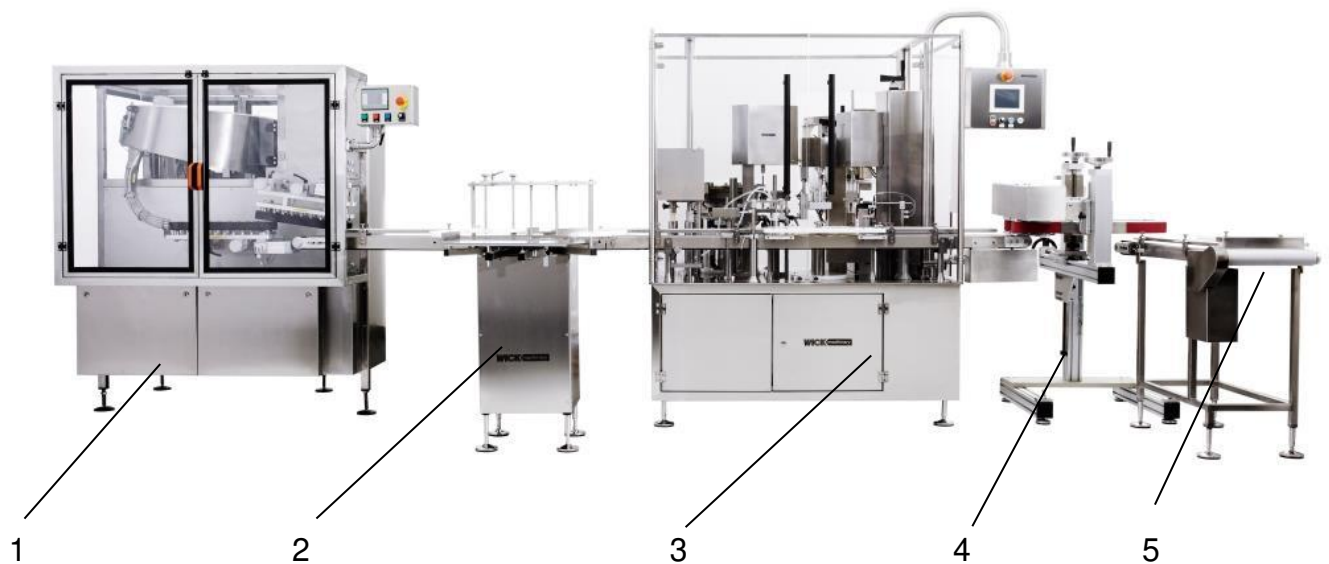
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## Application example: Procombo size 2



### Anlagenmodule

- 1 automatic bottle unscrambler
- 2 supply rotary table for glass bottles
- 3 filling and closing machine Minican Procombo, size 2
- 4 side conveyor for Ink-Jet-bottom coding
- 5 collection conveyor

## Overview on stations:



1. Infeed into starwheel, bottle presence sensor
2. Filling station 1 (rotary piston, ceramics, optionally: peristaltic, linear piston or flow-meter)
3. Filling station 2 (rotary piston, ceramics, optionally: peristaltic, linear piston or flow-meter)
4. Press-in-station for droppers
5. Sensoring station for droppers (presence as well as position)
6. Cap dispenser with pre-capping unit
7. Capping station with servo drive and gripper-style capper
8. Sensoring station for caps (presence as well as position)
9. Ejection station for faulty bottles
10. Regular outfeed to the conveyor

## Details:



### Sorter and press-in unit for droppers

with vibration sorter  
linear chute  
Pick-and-place-applicator and  
dropper check station



### Cap dispenser

with vibration sorter  
feeding chute  
pre-capper  
cap control station

### Capping station

with servo capper  
gripper style capping head  
electronic torque control  
height control after capping



application of foil disks  
with vacuum dispenser and pre-sealing



hot sealing station



gripper style capping head for secure capping



applicator for spray pumps incl.  
tensioning the tube

**Minican Procombo** with automatic bottle unscrambler, 3 filling stations (peristaltic) large cap bunker and elevator, capping station, labeller, 2 collection tables



**Minican Procombo** with supply rotary table, filling station (rotary piston filler) dropper dispenser, capping station





## The success story of Procombo

One Basic unit and more than 60 different settings to meet your individual requirements.



**Minican Procombo for sterile filling** with automatic bottle unscrambler, filling station, air bubble sensor for the filling hose, level sensor for the filling level, cap supply with pre-capper, capping station with servo capper and gripper capping head, labeller with integrated label printer and camera inspection for the labelled bottles.



## What does Minican Procombo stand for?

- Minican Procombo is a solid, well-engineered and continuous machine concept.
- Minican Procombo got awarded with the „Innovation-Award“ by the city of Vienna.
- Minican Procombo is equipped with a central, clearly arranged HMI by default, which ensures a simple and structured user guidance, and is able to store up to 100 records.
- Changeover time got reduced to a minimum through standardised concepts.
- All machines of Minican Procombo series are equipped with a tight-welded base frame and gasketed servicedoors on front and back.
- Plain surfaces allow simple and easy cleaning.
- Upper and lower engine room are continuously parted and gasketed. Thus, all drive-relevant as well as control technical components are separated from the working area and the machine can be used in clean room A.
- To attain an ideal torque transmission, the machines are equipped with bottle brakes in all capping stations. These bottle brakes ensure extra hold.
- All machines come with a pre installed option to upgrade to a servo-capper with torque processing later.
- All quality-relevant control units are connected via Mod-Bus and can be controlled directly via the central HMI.
- The combination of a tough platform, long-lived materials, 40 years of experience in building filling machines and modern, solidly constructed and built units ensure additional benefits.
- All preparations for Industry 4.0 on board.