

Automatic filling and closing machine Minican Universal



for liquids

for pasty products

for powder

for granules

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

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

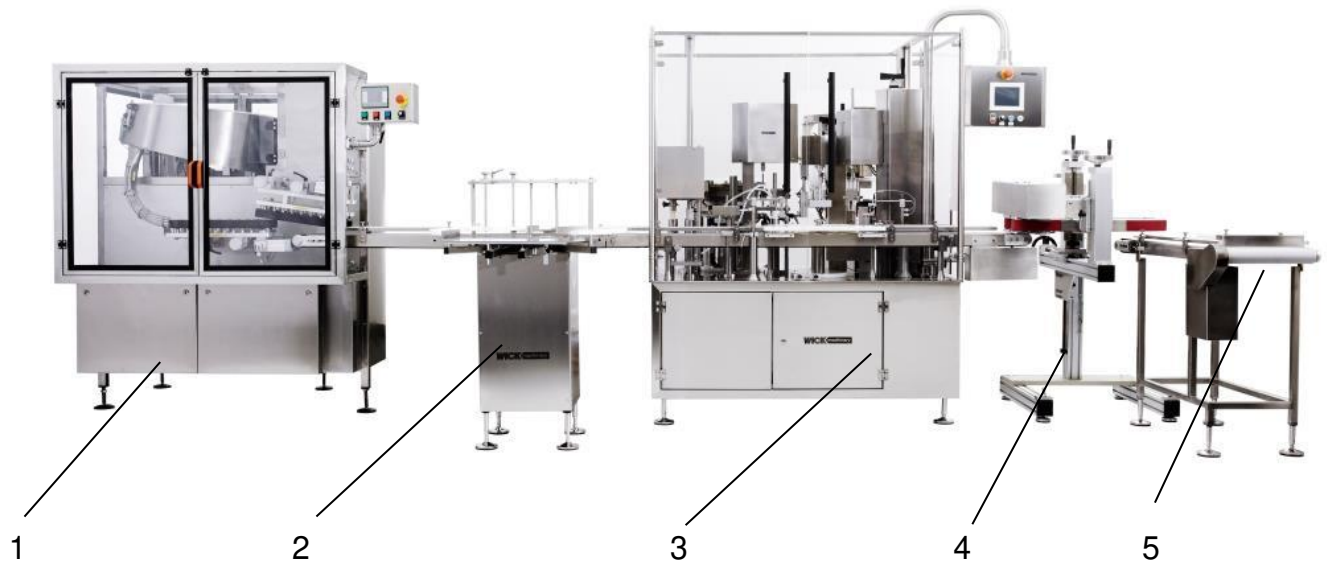
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Application example: Minican Universal size 2



Anlagenmodule

- 1 automatic bottle unscrambler
- 2 supply rotary table for glass bottles
- 3 filling and closing machine Minican Universal, 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 Universal with automatic bottle unscrambler, 3 filling stations (peristaltic) large cap bunker and elevator, capping station, labeller, 2 collection tables



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



The success story of Minican Universal

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



Minican Universal 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.





1



2



3



4



5



6

- 1) Minican Universal with slide valve piston filling station for Creams and pasty products
- 2) Minican Universal with pneumatic piston dosing pump for liquids
- 3) Minican Universal with peristaltic dosing pump for liquids
- 4) Minican Universal with auger filling station for powder
- 5) Minican Universal with auger filling station for granules and servo piston filler for liquids
- 6) Minican Universal with auger filling station for powder and peristaltic dosing pump for liquids.

Capping station available for:

Screw caps

Drop inserts

Press-on caps

Flip-top-caps

Cup-to-cup-closure

Pipettes

Brushes

Spray pumps

Triggers

Rubber stoppers

Crimp caps

ROPP caps and others

What does Minican Universal stand for?

- Minican Universal is a solid, well-engineered and continuous machine concept.
- Minican Universal got awarded with the „Innovation-Award“ by the city of Vienna.
- Minican Universal 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 Universal 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.