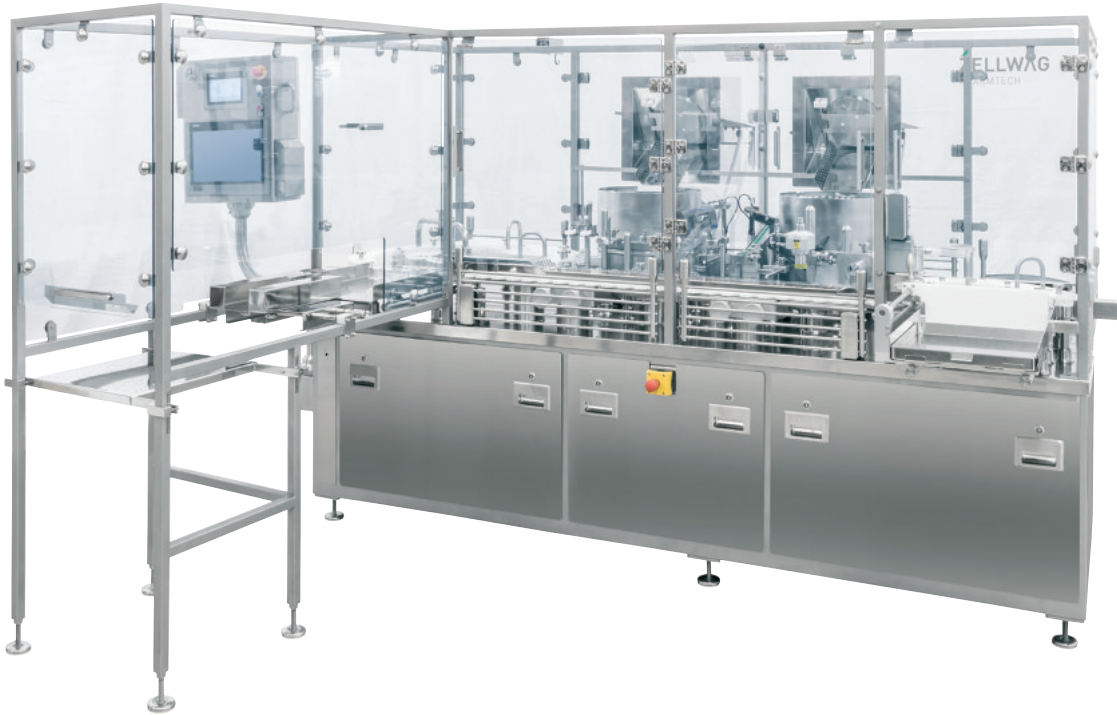


# Z-201 S-1

## Filling and Closing Machine



### Footprint

2600 x 1000 mm (without vial unpacking unit)

### Output

3000 units/h

### Technical data

GMP design

3 x 400 VAC, N, PE, 25 AT

> 6 bar air

< 5 bar nitrogen

1200 kg

PLC / HMI Siemens (Rockwell optional)

Servo drives Bosch Rexroth / Linmot

### Format range

Diameter min - max: 16 - 55 mm

Height min - max: 24 - 120 mm

### Products

Liquids (e.g. parenterals), semi-solids (e.g. gels), solids (powder, tablets)

### Containers / closures

Vials, bottles (glass / plastic)

Stoppers (13 mm, 20 mm, 32 mm) /

Crimp-on caps (13 mm, 20 mm, 32 mm) screw-on caps, sprays

### Configurations

Manual / semi automatic unpack unit for sterile packed „ready to use“ vials

N<sub>2</sub> pre- and post-gassing

In process control dosing volume by sensor or weight control (gross / tare)

Product filter / intermediary product bag with fill control

Particle and germ measuring system integrated on board

Interface to lyophilisator or labeller

Mobile version (on reels)

Upgrade of safety hood with LAF (Laminar Air Flow)

RABS (Restricted Area Barrier System)



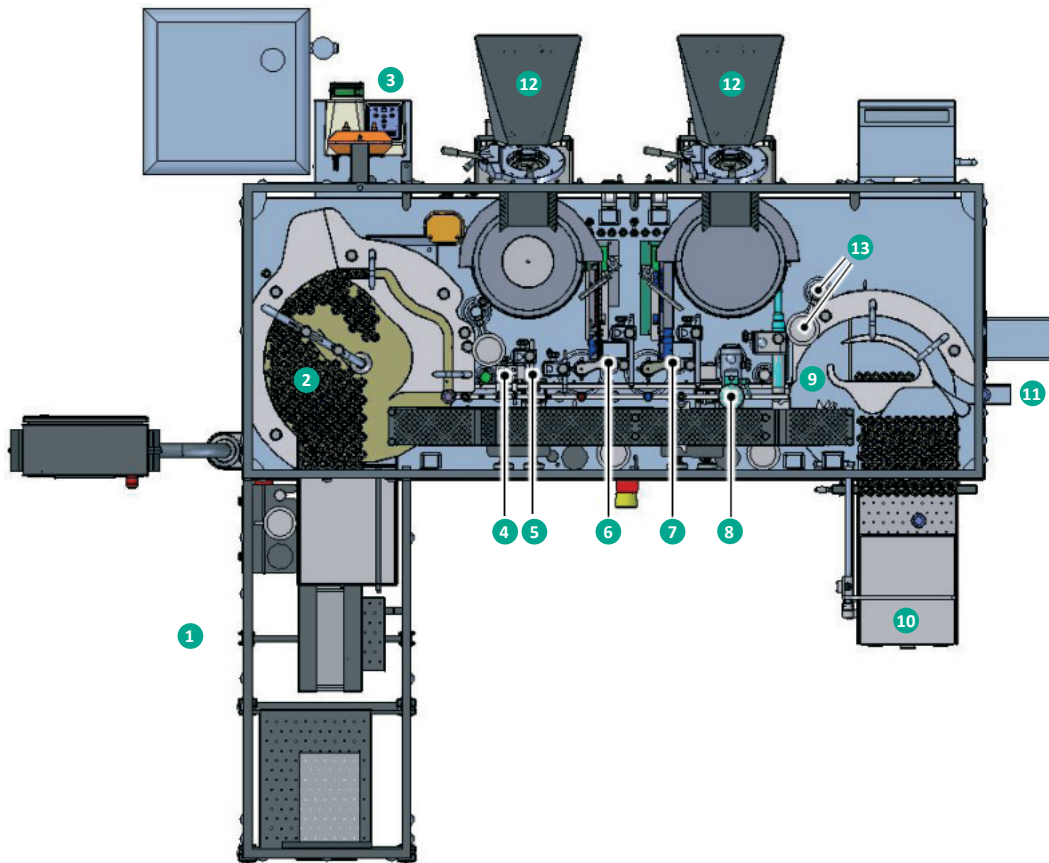
## Features

- Fully automatic process run in a monobloc design
- Manual or semi-automatic unpack unit for sterile packed „ready to use“ vials
- Dosing system according to product
- Feeding of stoppers and caps in sterile bags via A-ports (openable from outside)
- Rotating prism transport system with specially formed prisms for different vial sizes
- Easy format change: adaptation of the transport system to the product diameters via setting knobs with digital counters
- Integrated monitoring system for germs and particles

## Customer benefits

- Compact layout
- Stringent sterile concept
- Reduced number of format parts: with only 3 prism sets, vial / bottle sizes of diameters from 16 mm to 55 mm can be processed
- Easy cleaning: space between machine body and transport platform > 100 mm
- Each process station can be activated or deactivated according to the process requirements
- Product outfeed (lyophilisator or labeling machine) selectable via HMI
- Design allows gassing with hydrogen peroxide (stainless steel, sealings)

## PROCESS (CONFIGURATION EXAMPLE)



- |   |  |    |  |
|---|--|----|--|
| 1 | Unpacking unit „for ready to use“ vials          | 8  | Crimping station                             |
| 2 | Infeed turntable with automatic fallen vial exit | 9  | Outfeed with non-conformity, conformity exit |
| 3 | Product refill to intermediary bag via filter    | 10 | Lyophilisation interface                     |
| 4 | Pre-gassing, filling, post-gassing               | 11 | Labeller interface                           |
| 5 | In process control dosing volume                 | 12 | A-ports                                      |
| 6 | Stopper feeding and pick and place               | 13 | Particle and germ measuring system           |
| 7 | Cap feeding and pick and place                   |    |  |