

# COMBO PHILL™

ASEPTIC FILLING LINE FOR RTU VIALS AND PFS,  
FULLY INTEGRATED WITH ISOLATOR



YOUR ASEPTIC FILLING SOLUTION



PHARMA



**COMECER**

an  company

# COMBO PHILL™

ASEPTIC FILLING LINE FOR RTS VIALS AND PFS

COMBO PHILL™ is a **combined solution**, which integrates a robotic nest/tub filling machine and a Class A modular isolator equipped with laminar flow throughout the entire process.



Sterile filling in vials for liquid products



**Suitable for vaccine production**



Sterile PFS filling for liquid products



Full Laminar Air Flow



Sterile filling in vials for lyophilized products



All-in-one isolator integration



VPHP decontamination system



Panel PC HMI Control System fully compliant for CFR21 Part11 and Data Integrity requirements



Compact footprint



## Main features

COMBO PHILL is designed for aseptic filling of Ready-To-Use nested products such as PFS and vials, for R&D and Pilot Scale sterile production.

All the isolator chamber air quality is compliant with ISO5 / Grade A (EU-GMP) and equipped with laminar flow over the entire area.

### ROBOTIC HANDLING

Robotic handling of the nests and tubs grants precise and smooth operations

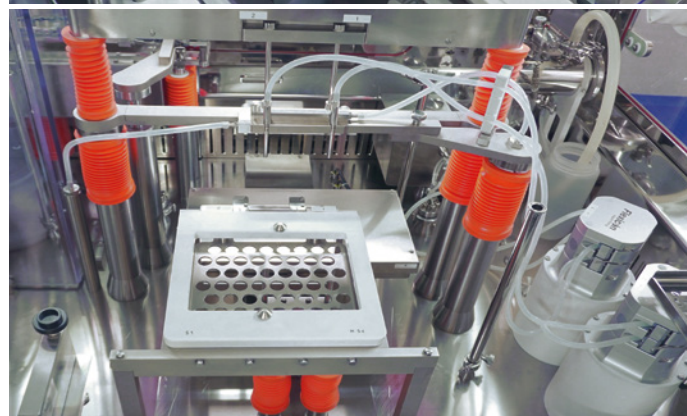
No glass-to-glass contacts during filling

Filling System adopts Peristaltic or Volumetric piston pumps, depending on customer needs

Possibility of filling different containers with minimum changeover

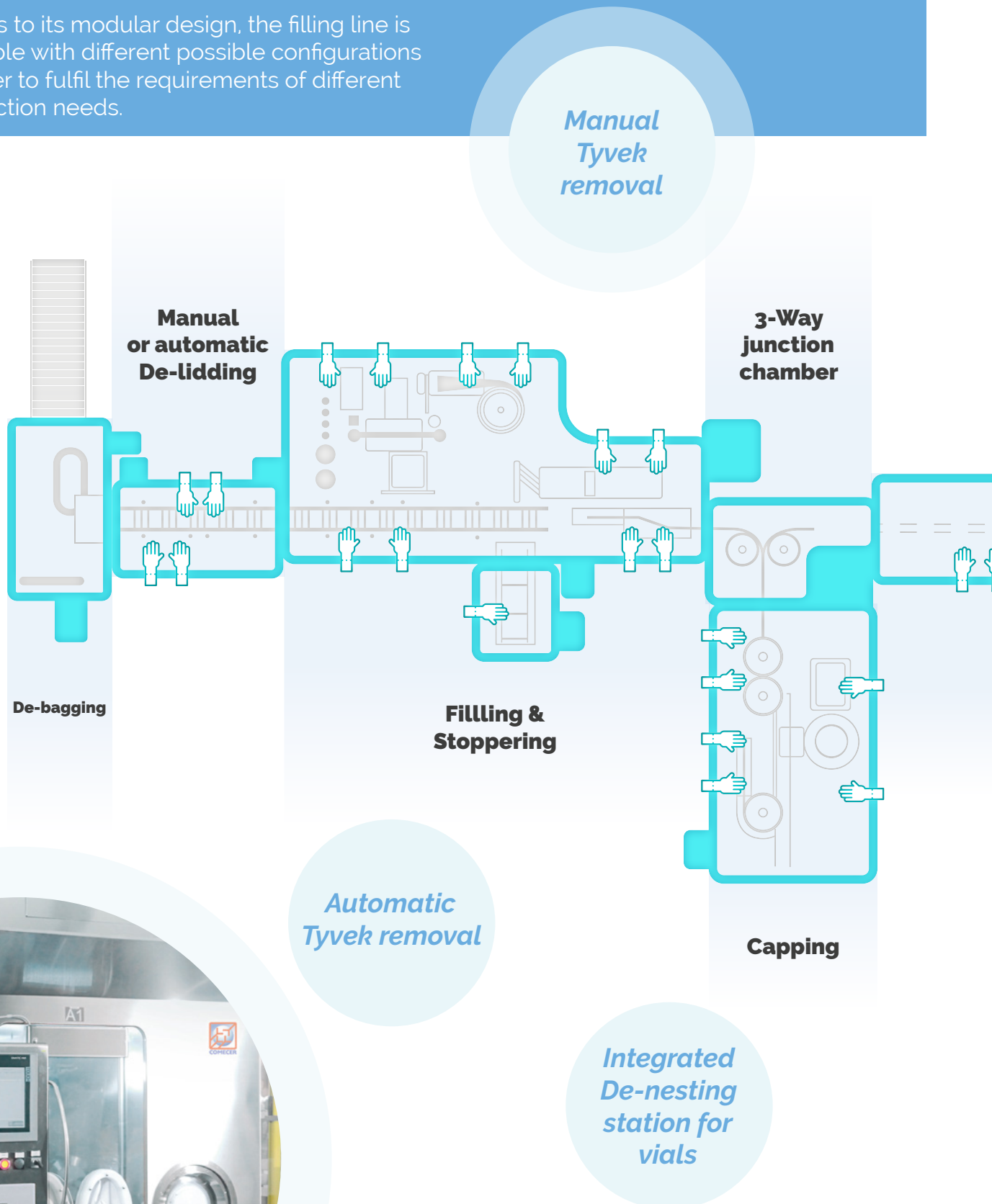
High filling accuracy

IPC by means of integrated load cells for statistical check weighing



## A real smart approach

Thanks to its modular design, the filling line is available with different possible configurations in order to fulfil the requirements of different production needs.



Different production cycles possible:

- A) Lyo loading;
- B) Liquid Production;
- C) Lyo unloading & simultaneous syringe production..

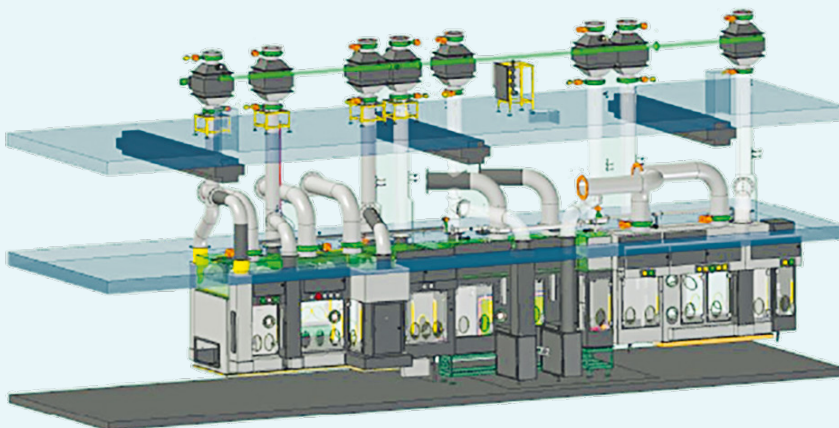
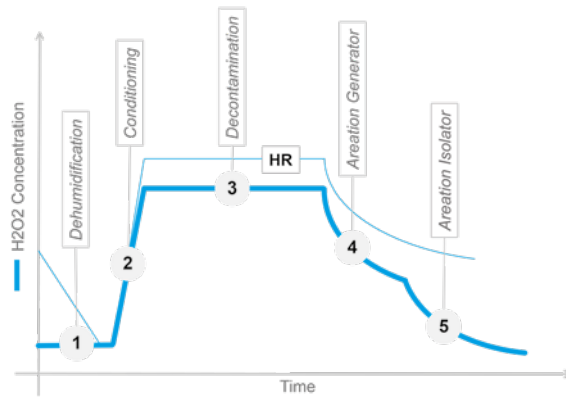
*Integrated freeze dryer for LYO/liquid production*

**LYO loading & unloading chamber**

*Integrated VPHP decontamination system*



**Buffer belt chamber for LYO**

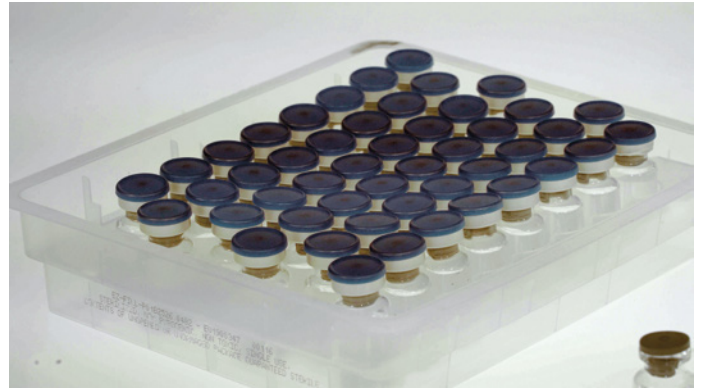


## The real smart approach to fulfilling all requirements

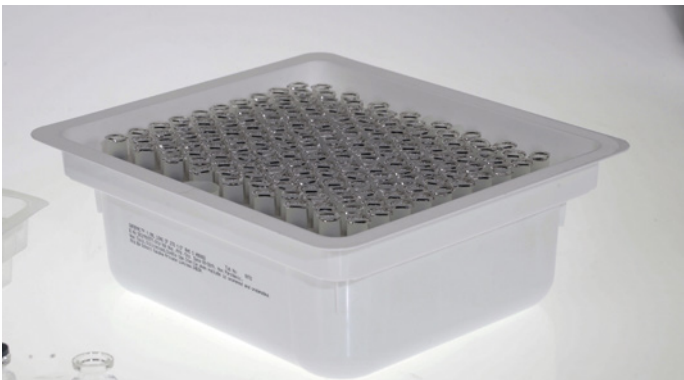
Possibility of filling nested syringes and vials.

Aseptic Filling via perfect combination between machine and isolators. Integrated VPHP decontamination system. Full process control by HMI.

- Syringes, PFS 1 ml - Nest 100 position @ 1 ml. fill volume: 2500 p/h
- Vials, 6R - Nest 48 position @ 5 ml. fill volume: 2000 p/h
- Capping of Lyophilized Vials @ Up to 6.000 pcs/h, capping only
- High filling accuracy by peristaltic pump
- IPC with statistical check weighing system
- Nitrogen purging before & after filling for vials and syringes.



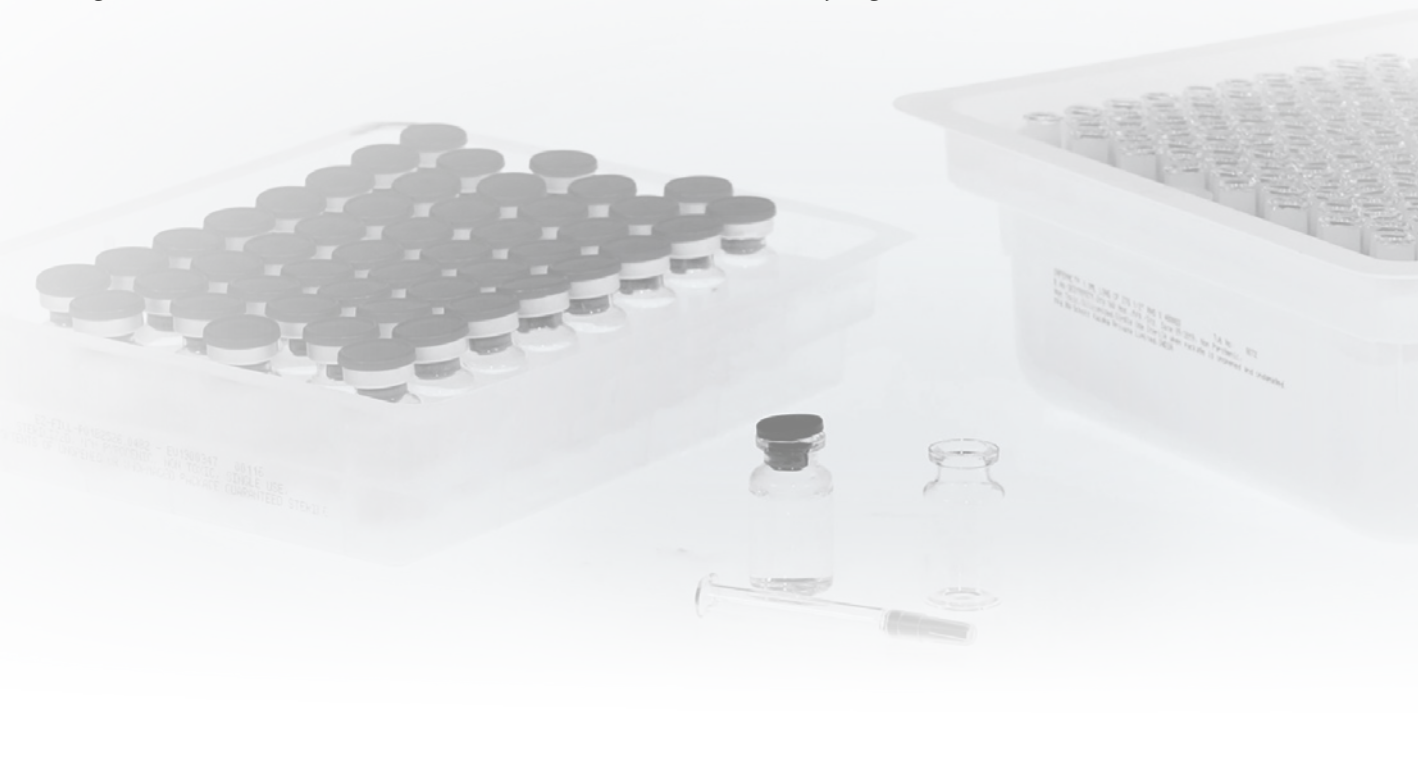
Vial tub



Nested glassware



Vials & syringes



## General process cycle

From nest/tubs to filled aseptic vials or pre-filled syringes by semi-automatic or automatic processing. COMBO PHILL is designed to allow minimal human intervention to reduce the contamination risk in your aseptic process.

Fully automatic or semi-automatic No-Touch-Transfer procedures grant smooth opening and transfer of the tubs inside the process area.

**ONE SOLUTION  
FITS ALL**



### De-bagging

Semi-automatic De-bagging

- Superior ergonomics
- Optimized bag cutting system
- Easy reachable bag disposal
- Validated process
- Possibility to integrate camera



### Robotic handling

Positive handling of nested products by robotic arm



### De-lidding

Fully or semi-automatic Tyvek removal & De-lidding

- Foil and lid automatically disposed
- Optimized movement to minimize particle generation
- One Stop operation
- Minimal footprint



### Filling & stoppering

Piston or peristaltic filling system available

- Optimum solution for filling different glassware in a nest
- Peristaltic or piston pumps
- Integrated check weighing system
- Nitrogen purging before & after filling

## Further available options

- Also available with fully integrated **Active ORABS**, as an alternative to isolators
- Glove integrity testing device  
**SPEEDY GLOVE**
- RTP Rapid Transfer Port and/or Sterile Liquid Transfer port
- Piston Pumps instead of peristaltic
- Viable and Non Viable Integrated Monitoring System
- HEPA H14 1st stage exhaust filtration
- HEPA H14 2nd stage exhaust filtration BIBO Safe Change
- Dedicated HVAC
- Scada interface Predisposition

## Technical data

### Material

Stainless steel sheet	Frame structure: AISI 304
	Chambers: AISI 316L
Stainless steel finish	external: Scotch-Brite internal: Mirror-Brite
Electric control board protection rating	IP54
External dimensions	6210 x 4025 x 2800 mm (w x d h)
Isolator weight	~7000 kg

### Utilities requirements

Compressed air	6 bar, 25 nL/min
Power supply	415V (3Ph+N+PE+FE)   50/60Hz   80A TN-S



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