

По вопросам продаж и поддержки обращайтесь:

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СУШИЛКИ И УСТАНОВКИ ДЛЯ ОБРАБОТКИ ЧАСТИЦ ALUS

Технические характеристики



ALUS™

ALUS™ Automatic Loading and Unloading Systems increase efficiency and minimize contamination risks

GEA Lyophil has specialised in supplying integrated freeze drying systems for more than 20 years and can ensure high performance, reliable and trouble-free operation based on our long experience as a partner to the pharmaceutical and biotech industries. We have more than 120 validated ALUS™ installations, successfully operating for various pharmaceutical applications that demonstrate our capability.

Whether filler or capper, our extensive experience in interface design for these plants guarantees the smooth integration of a perfectly harmonized production line.

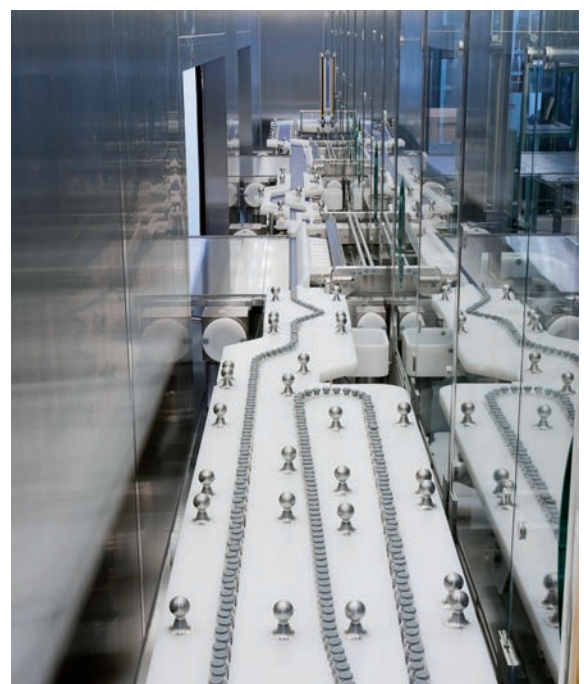
The containment requirements and product details determine whether it's necessary to have ALUS™ with open or closed RABS (cRABS) or isolators that require the use of a Stationary Push-Pull System.



ALUS™ Moveable Push-Pull



ALUS™



ALUS™ Stationary Push-Pull

Automatic Loading and Unloading System

The mobile Transfer Cart System distinguishes itself owing to its high flexibility when charging several freeze dryers.

Formatting and loading can run in parallel, thus optimizing the process. Alternatively, laser-controlled, rail-less transfer carts can bring a greater degree of flexibility into the spatial arrangement of the freeze dryer. The application of the unique gapless docking technique – no gap between the freeze dryer and transfer cart – means that we can guarantee maximum product protection and ensure that the transfer of the vials occurs under a constant laminar flow. Both designs are extremely adaptable with regard to primary packing and the degree of automation. Modifications can be made, according to demand, within a range from manual to fully automatic handling. Both systems can be executed in accordance with the ATEX guidelines, are modular, and can be retrofitted to existing units.

The GEA Lyophil ALUS™ stands for safety, performance, flexibility and reliability:

- High performance by charging of up to 800 vials/min and discharging of up to 700 vials/min
- Frameless operation
- High flexibility when operating with different vial forms
- Proven operational safety, even for difficult vials (diameter-height ratio of <3) owing to our unique patented design
- Superior sterile design with excellent laminar flow properties: no moving parts above open vials so as to increase safety and avoid product contamination
- Optimum interface coordination with upstream and downstream equipment
- Zone-type construction for containment according to product flow requirements



ALUS™ Transfer Cart

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