

# CYTOTOXIC ANTICANCER

HAZARDOUS YET FUNDAMENTAL DRUGS





## HANDLE SENSITIVE, HAZARDOUS, yet fundamental drugs



Cytotoxic process plants require extra care in the design: each component of the plant has to be compliant with GMP regulations, therefore ensure protection for operators and for the surrounding environment.

Cytotoxic drugs act by inhibiting or preventing the function of cells, stopping their replication or growth. They are primarily used to treat cancer and other diseases. This drug category is not able to generate action tightly targeted on tumoral cells and attack healthy cells too, thus it can produce side effects in patients as well as in operators exposed. Isolator becomes a fundamental part of the plant: designed to handle liquid with cytotoxic compounds, it offers an effective barrier to protect operator, product and environment from hazards caused by uncontrolled diffusion of air-transported contaminants.

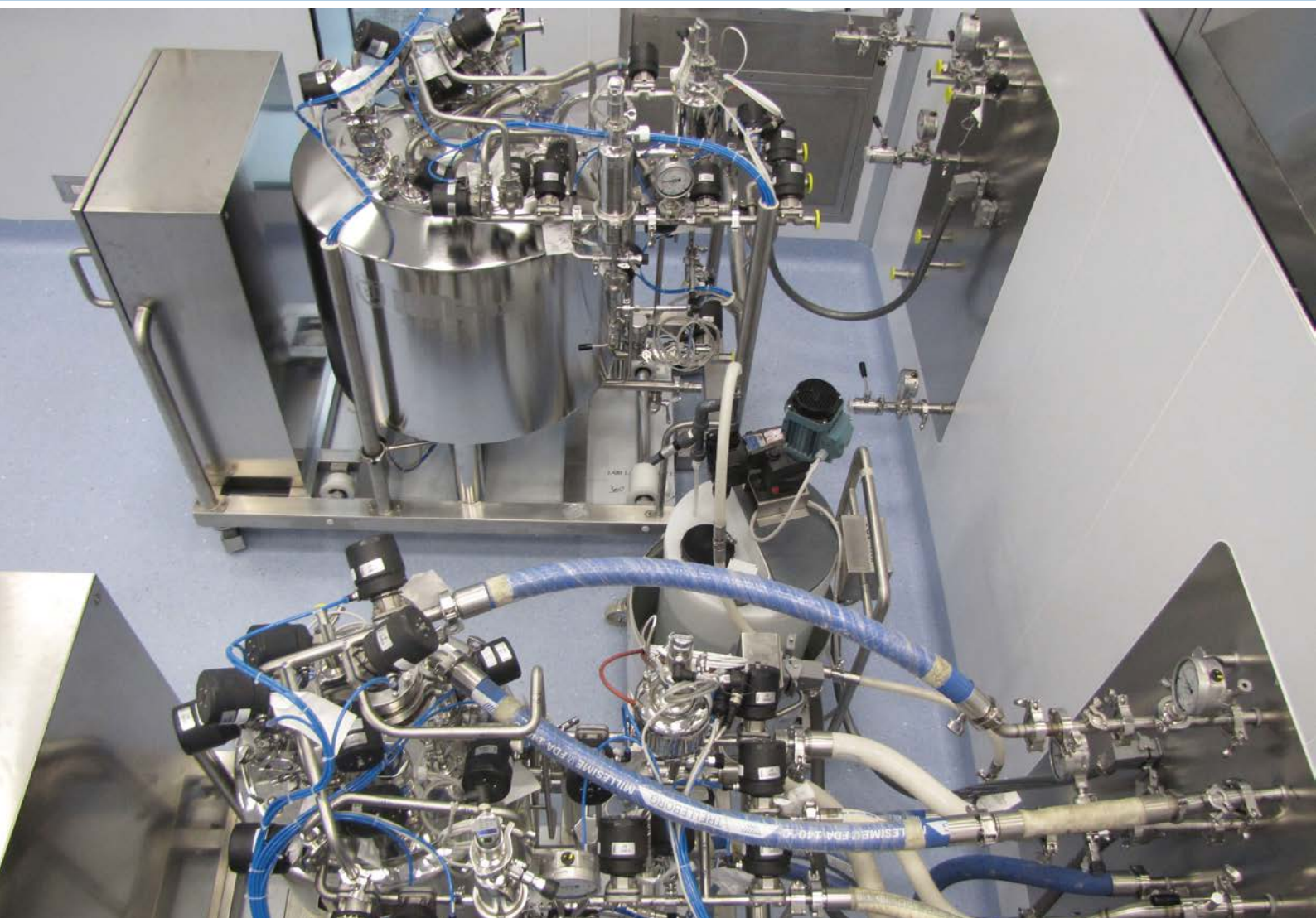


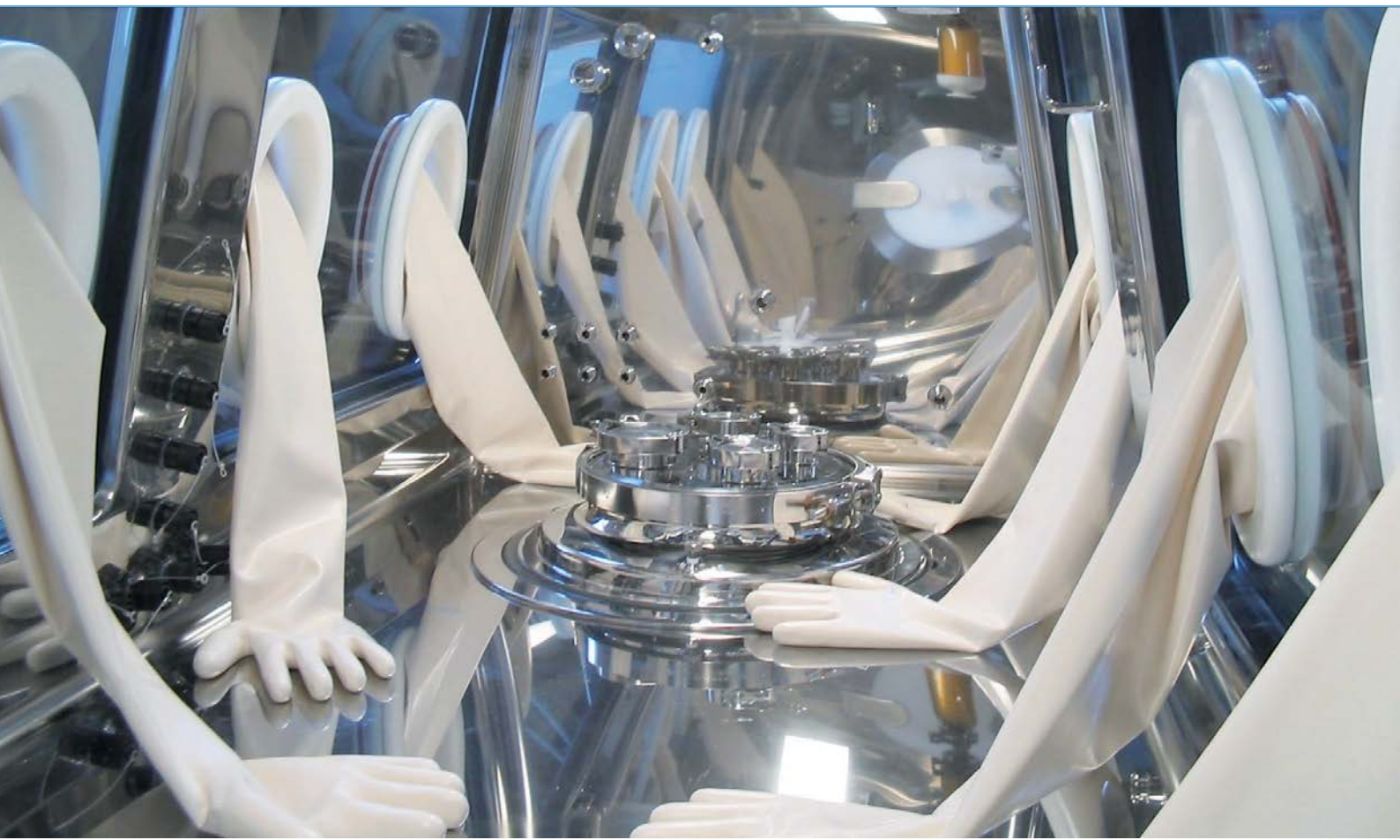
# COMPOUNDING AND DISPENSING ISOLATOR

High level  
containment

This isolator is designed for Vessel reaction charge (Compounding) or for Bin charge (Dispensing), in both cases the high activity product is introduced in the chamber through a pre-chamber. In the main chamber the operator discharges the product into the bin or in the vessel. In Compounding Isolator the reaction vessel is positioned on a loading cell to dose the required active ingredient; a special gasket assures the required containment level.

In Dispensing Isolator, the working surface will be provided with a "containment valve" to load the Bin lower positioned. The chamber is made in AISI 316L stainless steel with continuous welding and high bending radius. The frontal screen can be fixed or openable, made with safety laminated glass.





## CUSTOMIZED AUTOMATION SYSTEM

based on process  
specifications

The plant can be managed by automation system to monitor operation mode; manual controls; general parameters management; alarms managing; interlock; batch managing; data management and so on.







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WE CREATE WITH PASSION.**

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