

HELIOS

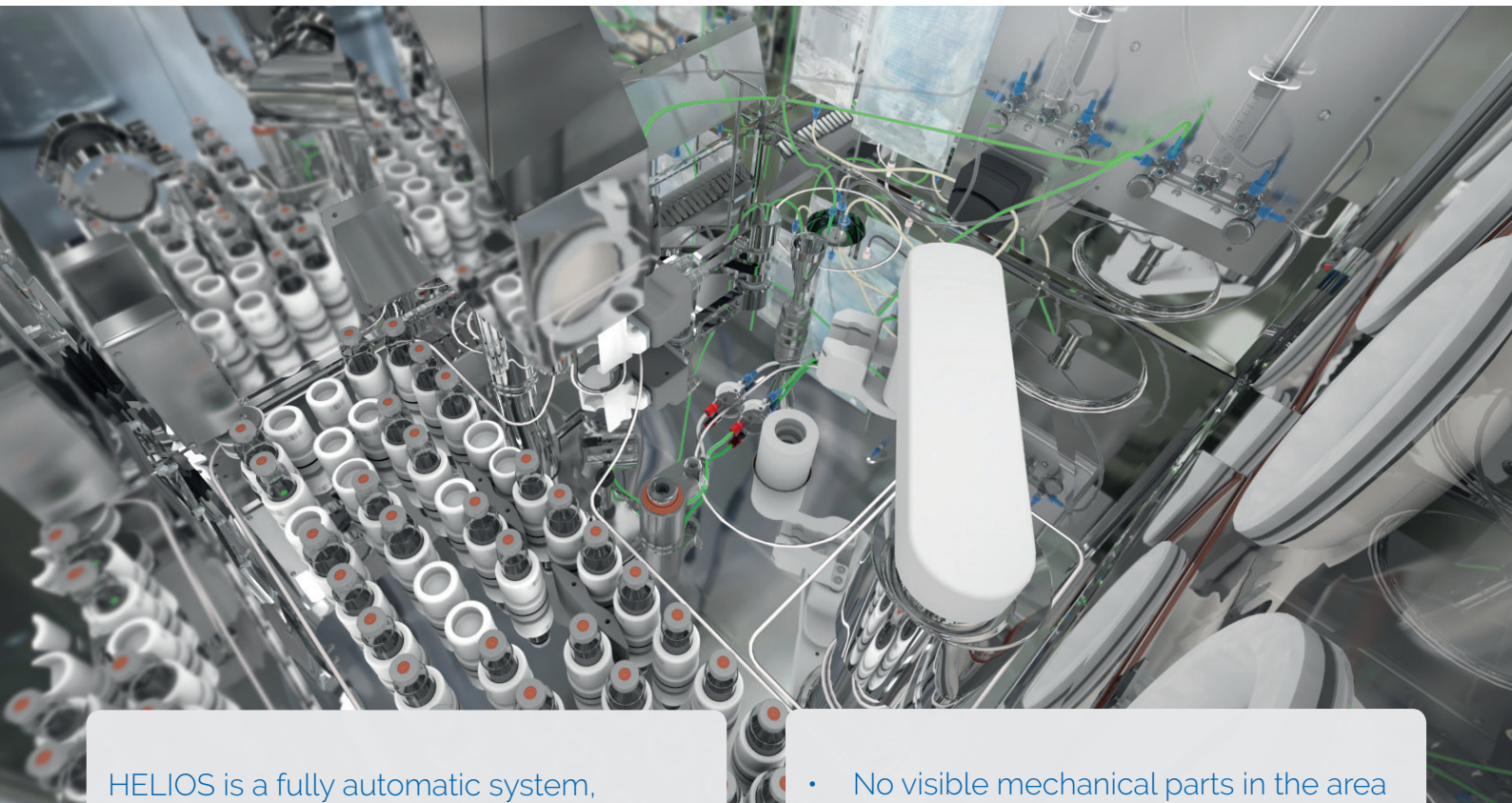
HIGH - THROUGHPUT ASEPTIC ISOLATOR
FOR VIALS AND SYRINGES FILLING



THE **FUTURE** IS NOW!

HELIOS

HIGH - THROUGHPUT ASEPTIC ISOLATOR FOR VIALS AND SYRINGES FILLING



HELIOS is a fully automatic system, able to provide an aseptic GMP dispensing process on vials and syringes. It is possible to have in the same batch, different vial format, different syringe format or even a hybrid batch of vials and syringes

- No visible mechanical parts in the area
- Complete cleanability for aseptic area
- Easily removing of the vial holder
- Easy change of formats between vial size and syringes
- Large batch size



GMP

FULL AREA CLASS A LAMINAR FLOW

HELIOS is designed for radiopharmaceutical production center, laboratories or hospitals following cGMP guidelines. The system has features such as Bubble Point Test (BPT) execution for the dispensing filter, leak test of the main chamber and pre-chamber. The system can be equipped with integrated particle counter and VPHP sterilisation cycle.



FAST

THE FASTEST DISPENSER IN THE MARKET

HELIOS produces batches of 50 syringes or vials with an average speed of 1 syringe/vial every 40 seconds. Each cycle includes dispensing, calibration (in the pass-through ionization chamber), discharge in the shielded container and extraction.



FLEXIBLE

IDEAL FOR LABS THAT NEED TO DISPENSE VIALS AND SYRINGES

It is possible to have in the same batch, different vial format, different syringe format or even a hybrid batch of vials and syringes.



VIALS



SYRINGES



COMPACT

COMPACT AND ESSENTIAL DESIGN

The shielded HELIOS isolator has a compact and essential design. Thanks to its small size, it can be positioned in confined spaces inside small laboratories or large production facilities.



AUTOMATIC

FULLY AUTOMATED SYSTEM

The dispensing system consists of fully automated components: an "invisible" conveying system for vials and syringes with magnetic transport system and two linear actuators with grippers for vials and syringes. The actuators move vials and syringes from the conveying system to the filling systems and from the conveying system to the pass-through calibrator.



CLEAN

THE «GHOST» CONVEYOR

An "invisible" conveying system for vials and syringes is the base of the movement system. Vials and syringes are placed on the work table of the cell inside magnetic containers and moved to allow filling and unloading in a sequential and fast way.

FEATURES AND BENEFITS

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- Class A dispensing chamber equipped with laminar flow on the entire area
- Material introduction chamber (pre-chamber) with air quality complying with Class B "At rest" (EEC-cGMP) and equipped with handling gloves
- Front or rear extraction system with Class B area provided with pass-through dose calibrator
- Integrated fully automatic dispensing system in the main chamber
- Dispensing in open vials, closed vials or syringes
- Shielded and hinged front door of the main chamber equipped with glass and hand doors for manipulation
- Shielded side sliding door between material introduction chamber and dispensing chamber
- Waste compartment with air quality complying with Class B "At rest" (EEC-cGMP) equipped with front door for extraction
- Air inlet filtration system made with a HEPA type absolute filtering cartridge
- Air outlet filtration system made with active carbon filtering cartridge
- 316L AISI stainless steel work chambers with Mirror-Bright internal surface finish and widely rounded corners
- Operator panel to check and trace the critical parameters of the machine both in "at rest" or "in operation" mode
- Shielded entry for radioactive fluids
- Connection for DOP test (filter sealing test) for absolute filters
- Semi-automatic Bubble Point Test for the dispensing system
- Geiger-Muller probe to detect radioactivity inside the cell and door interlock management
- Set-up for connecting hydrogen peroxide generators (VPHP) in the main chamber and in the pre-chamber
- Automatic leak test for main chamber and pre-chamber
- Set-up for a particle counter sensor in the main chamber and in the pre-chamber

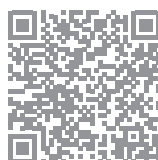


TECHNICAL DATA

Support frame material		Carbon steel treated with epoxy paints
External casing material		AISI 304 - Scotch-Brite™
Working chamber material		AISI 316L - Mirror-Bright
Lead purity	Title	Pb 98% + Sb 2%
Electrical panel protection rating	IP	54
Shielding (Pb)	mm	75 ÷ 100
Weight	kg	8500 ÷ 10000
Side pre-chamber internal dimensions	mm	555 x 740 x 495 (w x d x h)
Working chamber internal dimensions	mm	930 x 725 x 635 (w x d x h)
External dimensions	mm	2000 x 1290 x 2400 (w x d x h)



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