Radio-Pharma Presentation





About PBL



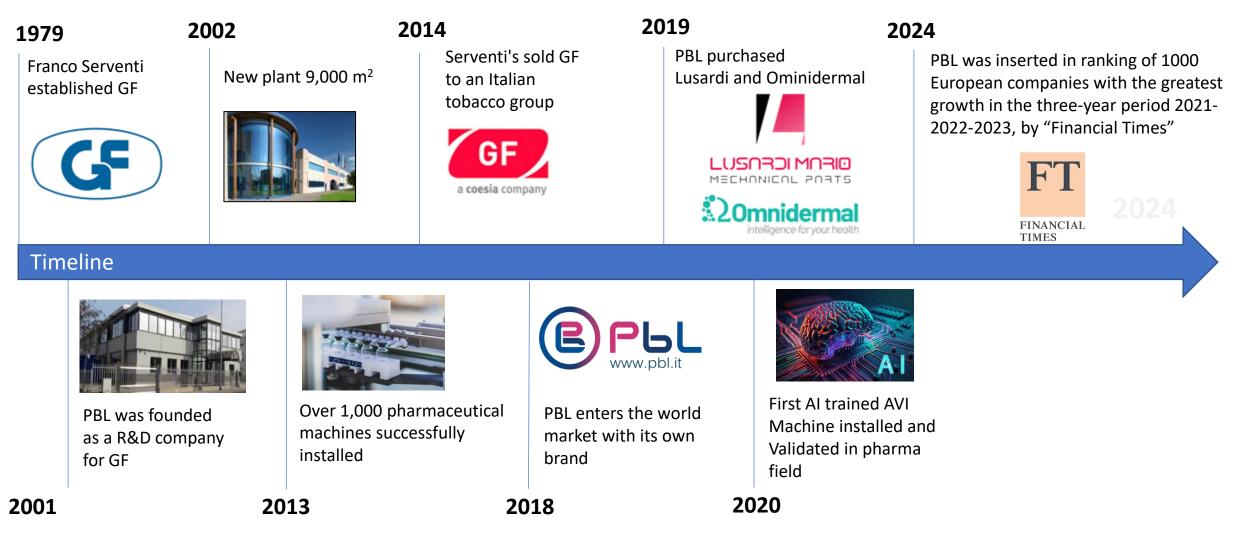
PBL was established as an industry-leading custom solution provider to global pharmaceutical corporations.

The entrepreneurial mindset of Franco Serventi and Marco Serventi – father and son – started in 1979 when the first automation solutions for beverage, chemical, and pharmaceutical sectors were designed, built, and installed. Four decades of extensive engineering knowledge obtained from thousands of successful projects are available to our clients.

The Serventi's history and passion for excellence, combined with the support of highly skilled engineers, makes PBL a unique partner for innovative and efficient solutions for global manufacturing corporations.

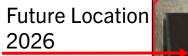


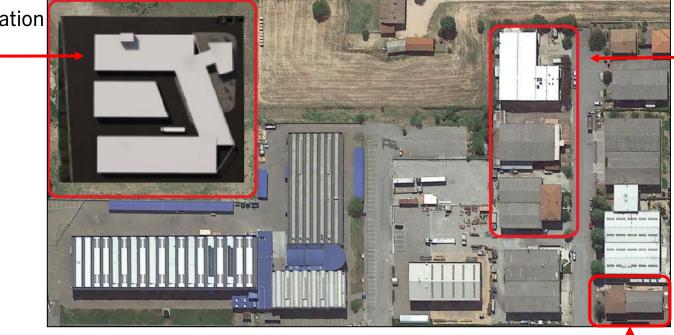
About PBL - Timeline





PBL Facilities





Building 1

Building 1: Head Office & Manufacturing

Building 2: Mechanical Parts Manufacturing

Future Location: PBL Manufacturing Facility Expansion

Welding workshop

Building 2





PBL Facility Expansion

PBL is expanding their manufacturing facility. The new state-of-the-art building will triple PBL's manufacturing capacity to 10,000 square meters

Expected construction completion is 2026.







PBL Today

Employees



Workshop



Know-how



110 high skilled workers 18 state-of-the art machining centers

45 + years of experience



Our Certifications



The **CE marking** designates a set of mandatory practices for all products for which there is a Community directive in this regard.



Good manufacturing practice (GMP) is a system for ensuring that products are consistently produced and controlled according to quality standards.



UL certification is issued by an NRTL. The UL certification attests to a product's compliance with a particular standard and is valid in the United States.



Industry 4.0 is the propensity of today's industrial automation to include some new manufacturing technologies to improve working conditions, create new business models, increase plant productivity and improve product quality.



The Machinery Directive 2006/42/CE foresees to carry out specific activities in order to increase the safety level of the plants by integrating safety in the design and construction phases, up to a correct installation and maintenance.



PBL ISO 9001:2015



Integrated Environment



PBL is ideal partner for pharma, radiopharma and cosmetic customized solutions applied to primary and secondary packaging. In a collaborative approach, our experts offer flexibility, innovation, technical expertise and value on your investments.



PBL is able to design and supply filling and packaging lines for single serve coffee, capable to satisfy any customer's request and react quickly to continuous market developments.



Customers looking for complex and customized software and hardware solutions can find an ideal partner at PBL. Our expertise in Artificial Intelligence and Deep Learning is offered to companies in need of dedicated industrial solutions based on innovative and efficient technologies.







Smartsheet provides essential tools for effective project management.

Smartsheet allows PBL to strategically plan project development with a realtime view of the data.

Visibility is one of the most important outcomes of standardized and streamlined process management, Outlaw says.

PBL uses dashboards to aggregate and visualize data so stakeholders can see at-risk projects, budget performance and development trends that could affect the business.

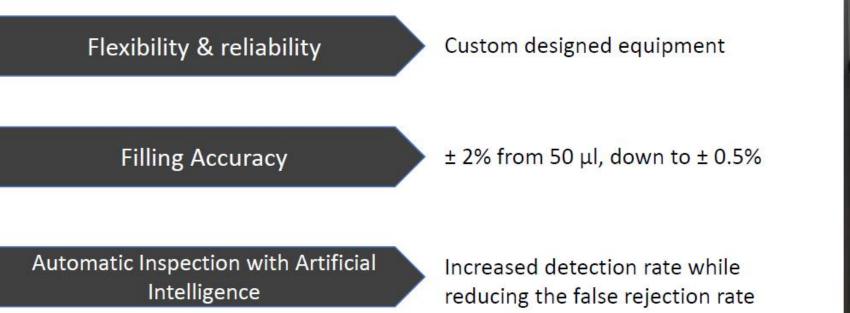
All PBL projects require collaboration between teams, so defining which roles handle particular tasks avoids confusion about which team is responsible for the next step.

smartsheet



P Pharma Division

PBL's Key Strengths







Semi-Automatic Formulation and Dispensing Hot Cell

Components and Process

- Shielding 135 mm (equivalent glass)
- Vial 10ml 10R (pre assembled)
- Manual formulation HOT CELL
- Automatic dispensing HOT CELL
- Automatic dispensing machine
- Automatic stoppering
- Automatic crimping
- Assay control by dose calibrator
- Robotic handling
- Sampling station
- Operator safety protection





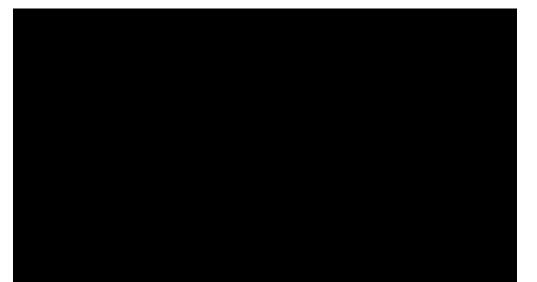
Semi-Automatic Formulation and Dispensing Hot Cell

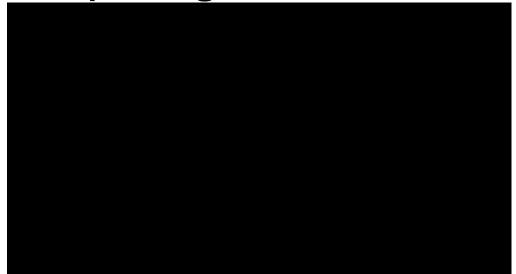




Semi-Automatic Formulation and Dispensing Hot Cell





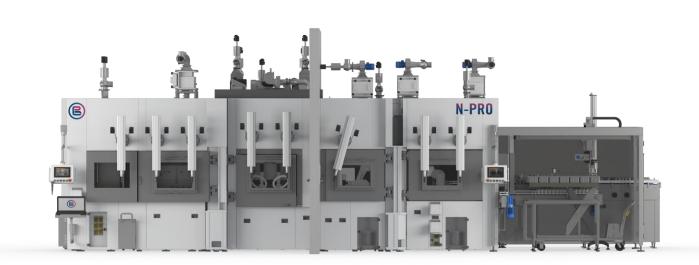




Formulation, Dispensing, Inspection, and Packaging Hot Cell Line

Components and Process

- Shielding 60-170 mm (equivalent glass)
- Vial 10ml 10R (pre assembled)
- Manual formulation HOT CELL
- Automatic dispensing HOT CELL
- Automatic/Manual Inspection HOT CELL
- Automatic packaging HOT CELL
- Automatic dispensing units (2)
- Automatic stoppering (2)
- Automatic crimping (2)
- Assay control by dose calibrator (3)
- Robotic handling
- Lead Pot vials insertion unit
- Operator safety protection
- Redundancy process system (for batch recovery)





Formulation, Dispensing, Inspection, and Packaging Hot Cell Line

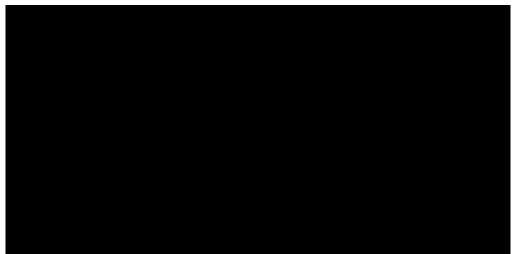


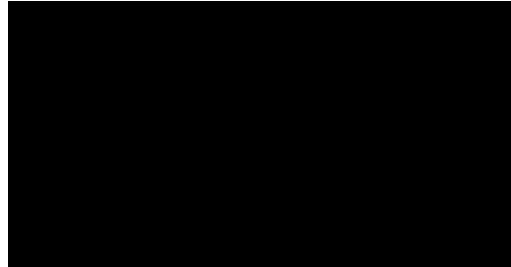
Video Link: https://vimeo.com/842518034/29ffbd08d6?share=copy



Formulation, Dispensing, Inspection, and Packaging Hot Cell Line



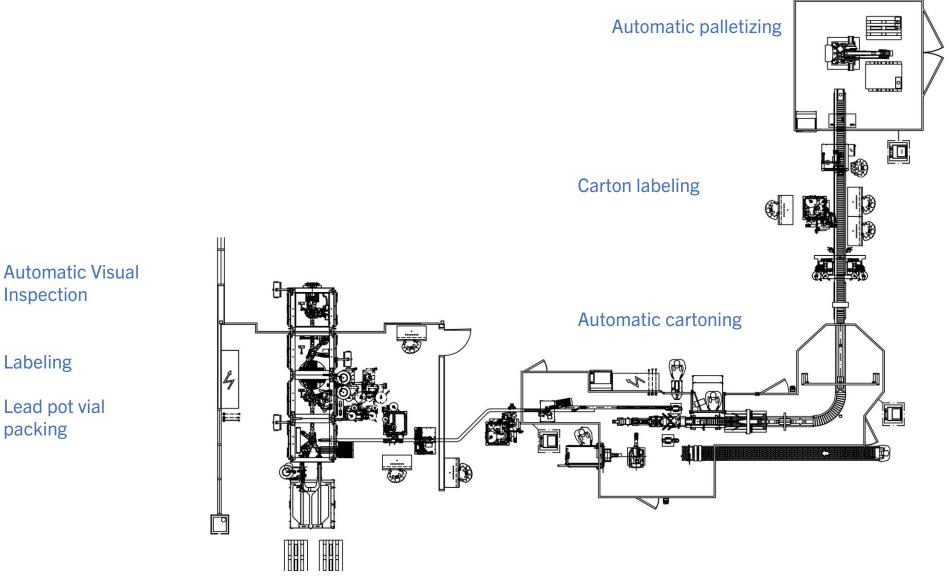








Automatic Inspection, Labeling and Packaging



Inspection

Labeling

packing

Lead pot vial



Automatic Inspection, Labeling and Packaging





Automatic Inspection, Labeling and Packaging



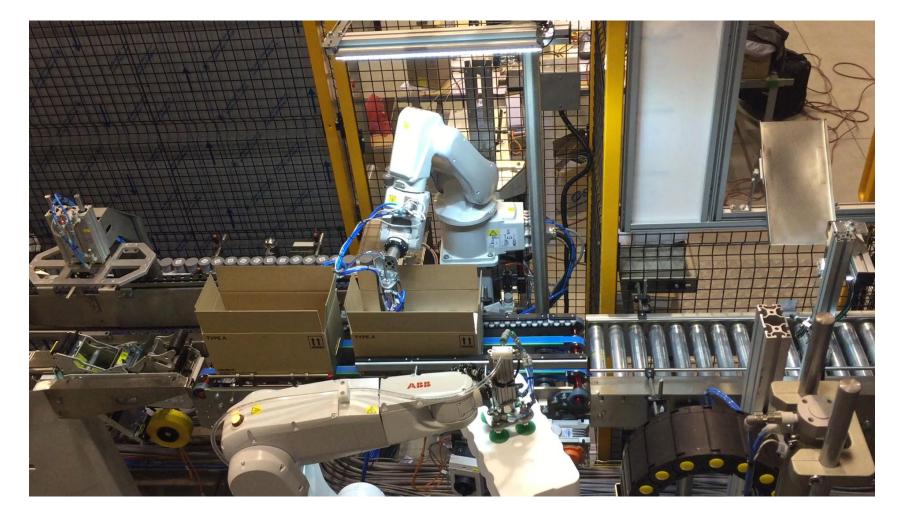






Automatic Cartoning and Palletizing Line





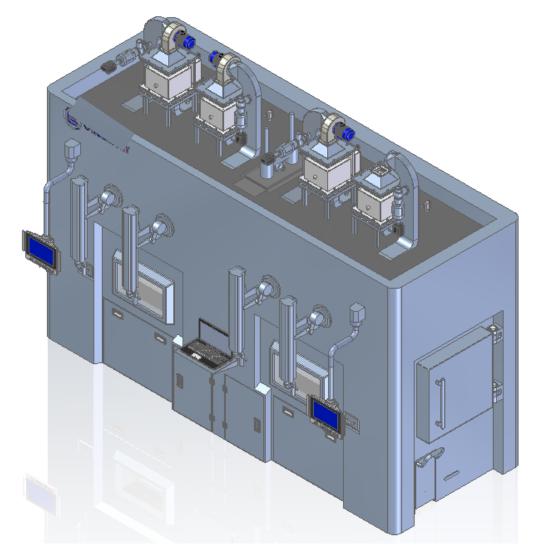
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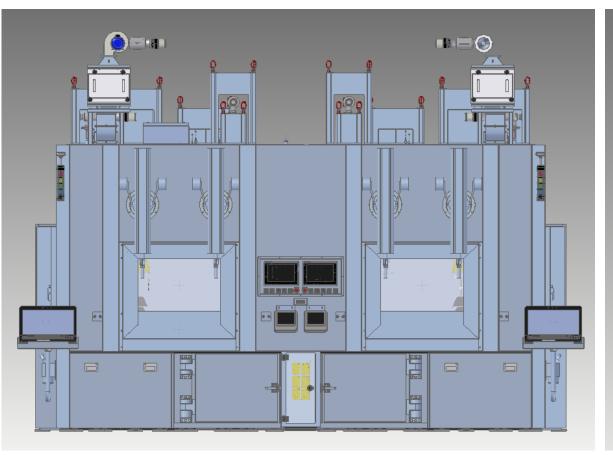
Semi-Automatic Isotope Recovery and Purification Hot Cell

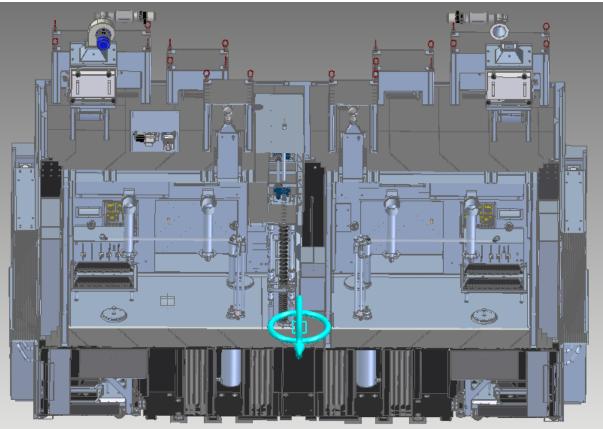
Components and Process

- Shielding 190 mm (equivalent glass)
- Vial 10ml 10R (pre assembled)
- Manual HOT CELL 1
- Manual HOT CELL 2
- Assay control by dose calibrator
- Manual handling











Semi-Automatic Visual Inspection Hot Cell

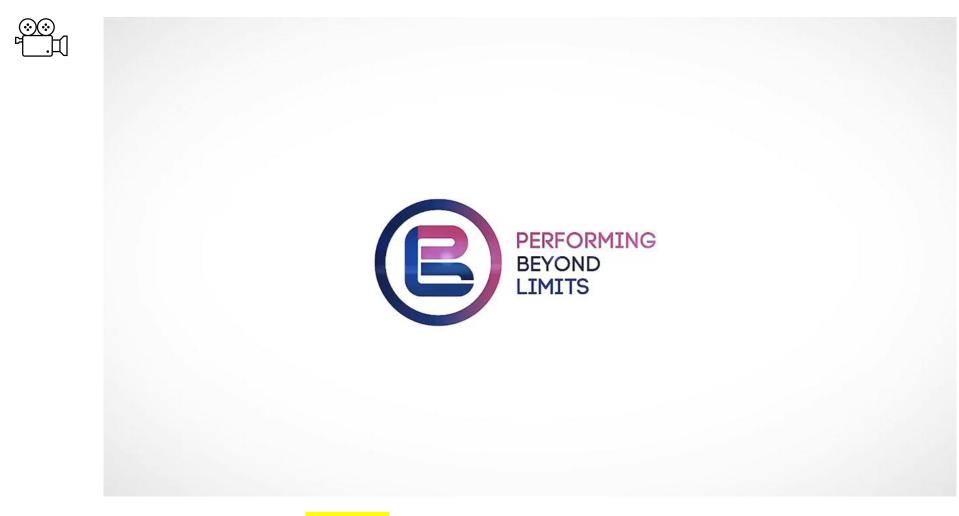
Components and Process

Shielding 10mm (equivalent lead glass)
Vial 10ml 10R
Manual Vials feeding by LEAD BOX
Manual Inspection
Automatic rejection system
Manual unloading by LEAD BOX





Semi-Automatic Visual Inspection Hot Cell







Semi-Automatic Visual Inspection Hot Cell



P Pharma Division

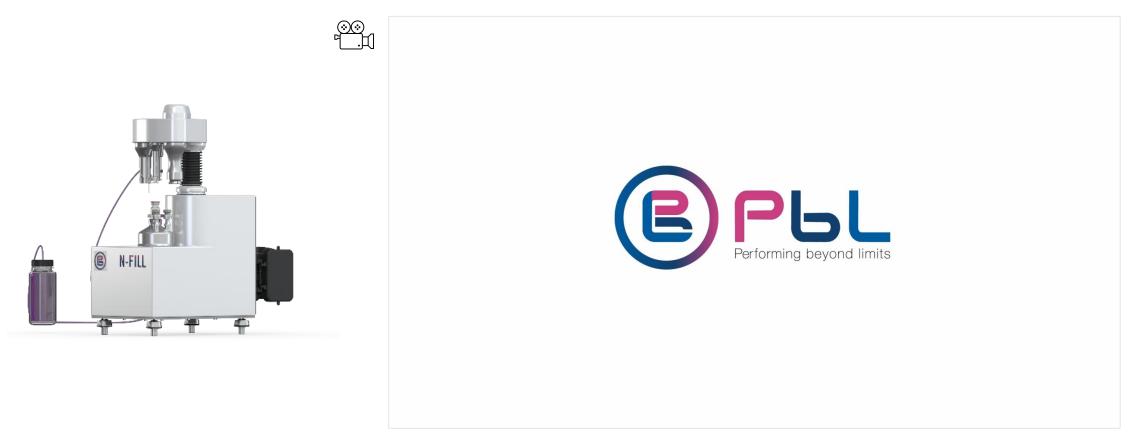
N-FILL: Vial Dispensing System



- Capability to fill pre-assembled vials.
- Output speed: 30 seconds/vial.
- Dispensing system using peristaltic pump (additional syringe pump filling nozzle available upon request).
- Sealed with rubber stoppers and aluminum caps or press-fit caps.
- Integrated bubble-point test.
- 100% IPC integrated weight check with retroactive feedback to the dosing station.
- User-friendly and fast, tool-free format change over.
- Operator manually places the vial in the dispensing vial holder.
- Robotic vial handling available in PBL hot cells, as an option.
- Filling and closing operations are performed automatically.

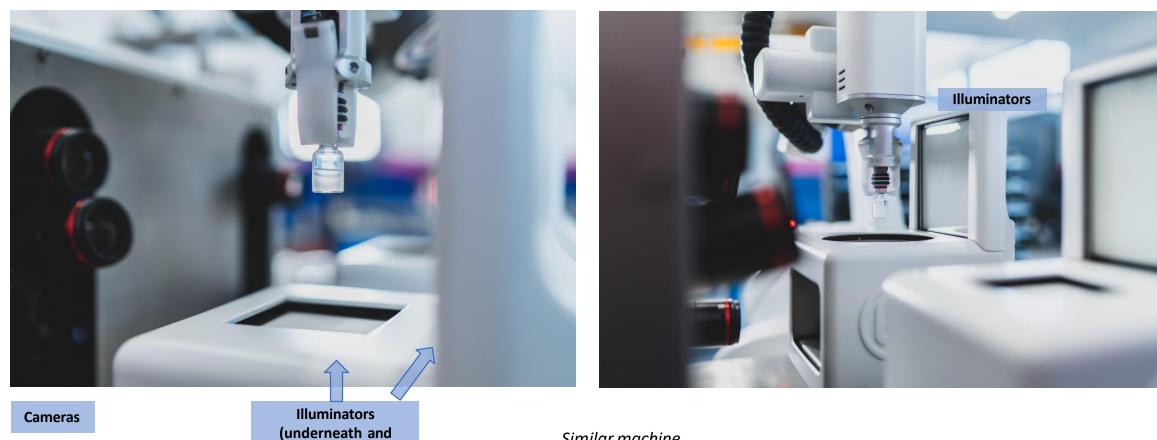


N-FILL: Vial Dispensing System





N-VISIO: Vial Inspection System



Similar machine

behind the vial)



N-VISIO: Vial Inspection System



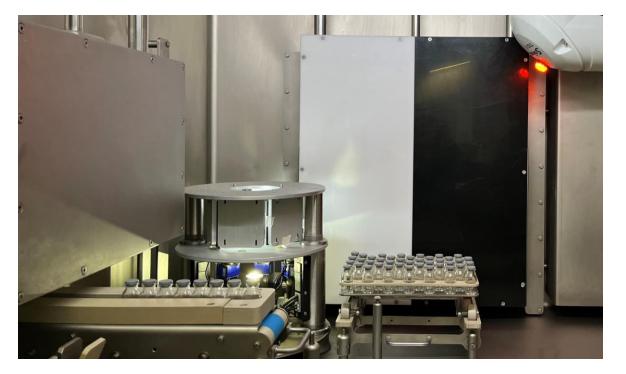
Vial holder and spinning station

Similar machine

View from HMI



N-VISIO: Vial Inspection System





Dark and white background for manual inspection

Similar machine

Change parts for different format sizes or containers



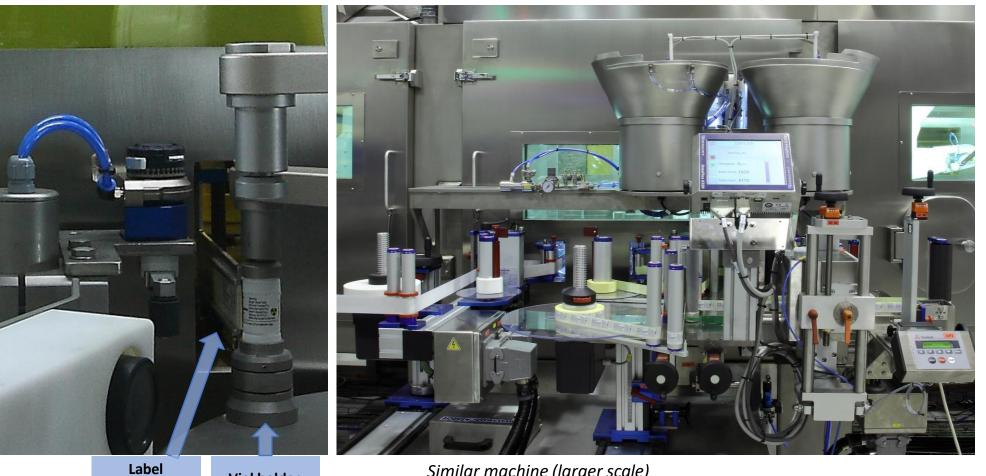
N-LAB: Vial Labeling System



Similar machine



N-LAB: Vial Labeling System



Similar machine (larger scale)

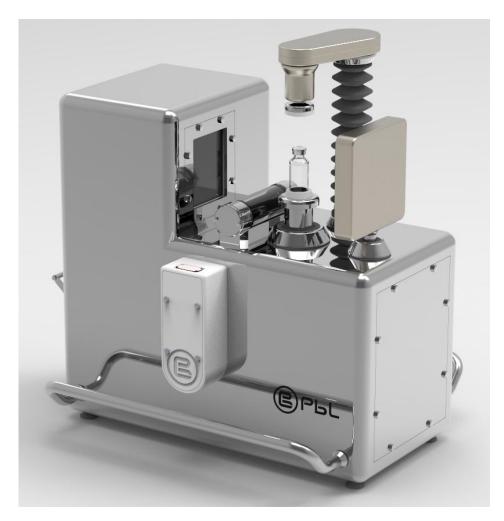
Vial holder

application



N-LAB: Vial filling and Vial inspection





Find us on: www.pbl.it

