



Technologies & Manufacturing Equipment

PWL Series

Semi-automatic solutions
for ampoules, vials, infusion bottles,
cartridges and syringes inspection



Stevanato Group

MANAGING COMPLEXITY, DELIVERING VALUE

PWL Series

PWL Machines are designed to overcome simply and effectively problems associated with the inspection of vials, ampoules, cartridges and syringes.

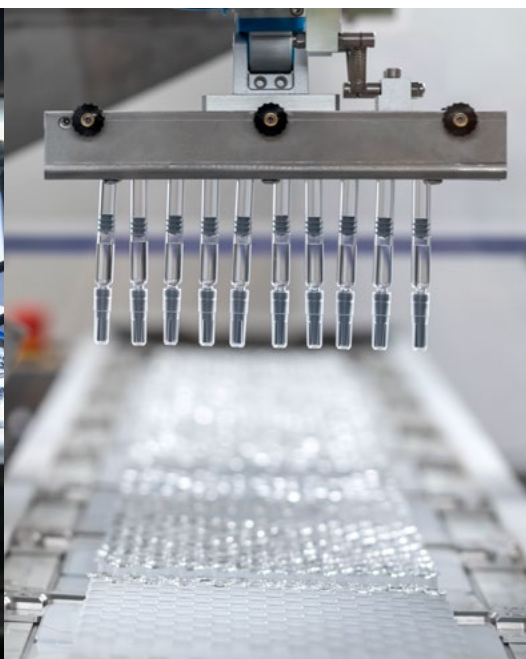
Mechanically, transport speed exceeds 6000 pcs/hour, but a speed of 3600/4000 pcs/hour is advised for an efficient inspection. The operator performs inspection under optimized conditions of lighting, safe handling and comfort.

Operator's training is very simple: illumination allows a high level of visibility and accurate inspection and size change takes a few minutes. Skilled personnel is not required.

Main Features

ADVANTAGES

- Very compact footprint.
- Ergonomic inspection place.
- HMI easy to use.
- All sensors, motors, counters are controlled by PLC.
- GMP and GAMP4 compliance.
- Exit Exact counting available.
- **Special Light Design:** Lights installed from the top, from rear and from under the containers transportation.
- **Tyndall Light:** Special effect to make more evidence particles presence.
- **Mirrors:** Installed under and above the containers transport lane.
- **Background Filters:** Black and white polarized filters available to be positioned on the magnifying lens (based on the product to be inspected).
- **Lense:** High magnifying lense.
- **Transportation features:** Transportation in front of the inspection area is performed through rollers. Such rollers are properly designed with wings which permit to apply two spinning rotations (one slow and one fast) on the containers. The rollers shape is properly designed to permit a good light condition to the whole inspection environment.



APPLICATIONS

- Ampoules
- Vials
- Infusion bottles
- Cartridges
- Syringes

Highlights

- Recognition of contaminations in **all liquid products**.
- **Tip shape, tip defects** detectable in ampoules.
- Special light adapted to **suspensions**.
- **Freeze-dried product** inspection.
- **Cap, closure and bottom** inspection
- **Automatic inspection station**
To detect vials cap before performing visual inspection.

Technical Data

Contents

Injectable liquid, powder, lyophilized, freeze-dried products

Inspection Available

Particles, cosmetic defects, closure quality, glass surface, neck, bottom, shoulder area, crimping of vials, ampoules tips

Operators

One per cabin - dual cabin available

Mechanical Output

max. 6000 pcs/hour

Inclination of Objects

30° or other inclination available

Reject Systems:

Manual or automatic

Working Height:

900 ± 25 mm

Dimensions:

Based on the configuration

Configurations

- > **Stand alone**
- > **Back to back**
- > **Turntables and bi-flows:** infeed and outfeed accumulating/ buffering solutions available.

For Syringes

- > **Denester:** Automatic denester to load the syringes directly on the infeed path. Number of nests to load can be different according to customer demand.
- > **Needle up:** Syringes are inspected with needle up, this is an advantage to avoid hidden particles under the cap.



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and commercial offices in 10 countries.**

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