



+ leak detection for glass ampoules

The TS leak detection machine is the best solution for a reliable detection of microcracks or pinholes affecting the sterility of glass containers



## + Functioning

Each container, tilted in horizontal position, is tested with a high voltage discharge (up to 40 KV) applied to its two ends. Not leaking containers are perfect isolator and allow the passage of a minimal current while the presence of a microcrack generates an electric discharge with a high current passing through the conductive liquid inside.

Four electrodes repeat the test twice in the upper and lower half of containers allowing the detection of microholes in the range of micron even in liquids with minimal conductivity. The original and patented system to tilt in horizontal position the containers allows a very compact machine, easy to clean and maintain, with a simple size change free from adjustments. Repetitive results and easiness of setup, due mainly to a smart reduction of parameters and to integrated test devices of high voltage signals, allow an easy validation of the machine.



# TS

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### + Advanced Features

#### • Sizes wide range

Ampoules and vials, from 9 up to 42 mm diameter and height up to 130 mm

#### • Inspection area

100% of containers performed by two electrodes for the tip of ampoules or the sealing of vials and two additional electrodes for the body

#### • Special features

Set of calibrated resistors for periodical check;  
Set of in-built connectors for automatic check of signals;  
Aspirator for ozone evacuation;  
Rotation of containers between the inspections

#### • Fast changeover

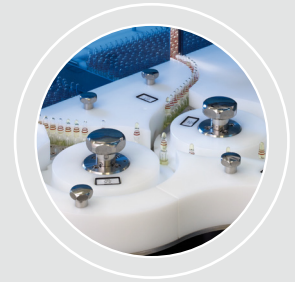
10 minutes without tools nor skilled personnel.  
Electrodes are included in each size change for longer duration and to ensure precise position without adjustments. Pinned and coloured end of cables for no-mixing of electrodes

#### • CFR21/Part11 compliance

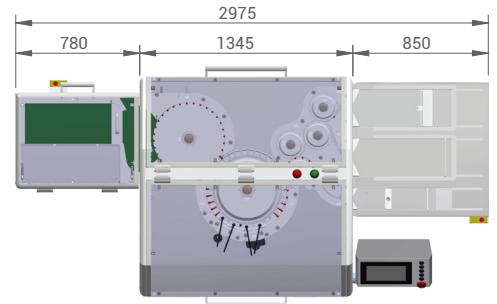
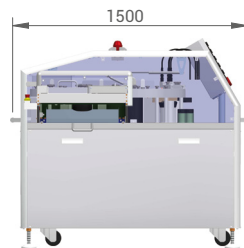
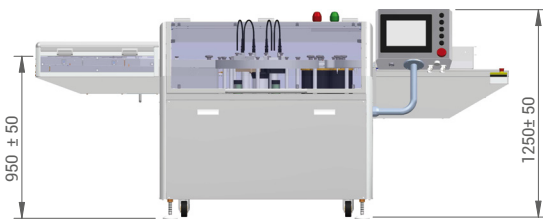
User friendly HMI based on 12" touchscreen PC running on Windows

#### • Modular layout

Stand alone layout with infeed/outfeed by trays or in line connection. Optional two trays outfeed with exact counting



### + Technical Specifications



#### Dimensions (LxWxH)

297,5 x 150 x 125 cm

#### Weight

400 Kg

#### Electrical / Power

230V ± 10% 50/60 Hz 1 Ph 1,5 Kw

#### Machine speed

Up to 24.000 pcs/hr (small sizes)

#### Loading height

950 ± 50 mm

#### Containers types

Ampoules and vials

#### Acoustic noise

75 dB

#### Container sizes

Ø9 ÷ Ø42 mm

#### Maximum containers height

130 mm

#### Minimum conductivity of liquid

2,5 ÷ 5 µSiemens/cm

#### Minimum hole dimension

1 ÷ 10 µm