



+ bench for visual inspection

The TB inspection bench is the best, easy and compact solution for samples inspection to detect particles and cosmetic defects of containers

+ Main Strengths and Features

• Machine

Compact design with modular system for different containers
 Siemens PLC and display
 Automatic repeat mode available
 Stainless steel and FDA approved plastic material
 Compliance to 2046/42/CE rules
 Fast size change with two pieces only (one minute maximum)

• Inspection system

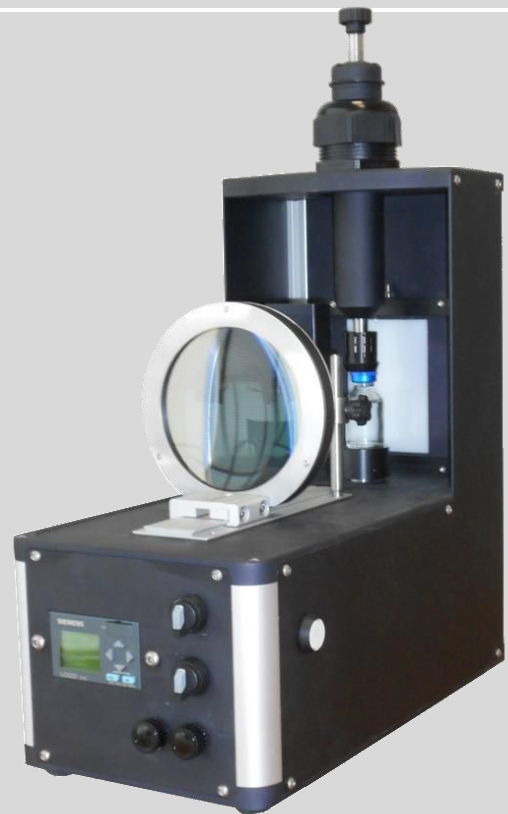
Two illumination systems: back light and bottom light
 Illumination by high power long life LED
 Black mask for meniscus
 Black and white background
 Polaroid filter

• Special features

Spinning motor with adjustable speed
 Sliding magnificent lens 2x

• Installation and training

No installation
 Not specific skills needed



+ Description

TB is a compact table top bench designed to perform the visual inspection of containers to detect the particles inside the liquid.

It can be installed in laboratory for quality test or it can accompany automatic inspection machines for periodical evaluation of results. The execution of the test is absolutely simple and safe for the operator.

The bench is available in two different version:

- the complete manual bench that include a magnificent lens used by the operator to see the containers and inspect it after spinning;
- the automatic version with a camera and a laptop that inspect automatically the container. The operator has only to load the bench, start the test and unload the bench.



LIQUID DEFECTS

Glass particles
Heavy glasses
Fibers
Dark particles
Filling level
Not reflecting particles

COSMETIC DEFECTS

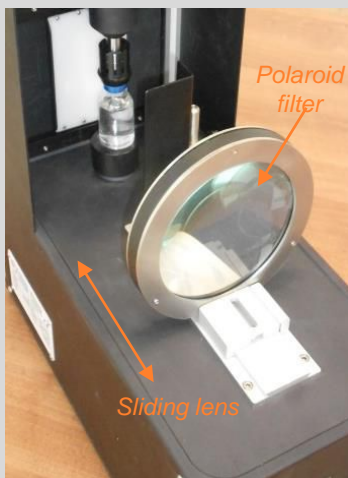
Ampoules tip height
Ampoules tip shape
Ampoules rings and OPC presence
Vials alucap sealing
Vials flip off presence
Plunger level

+ Operation

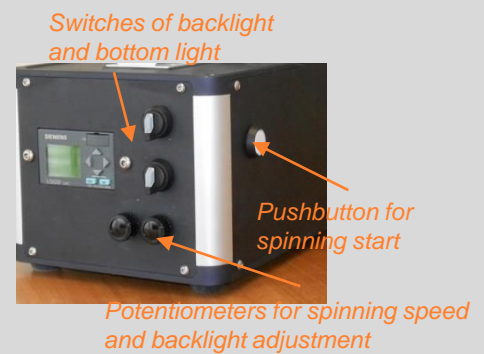
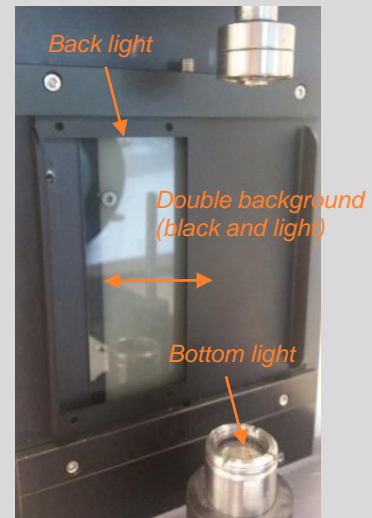
Operator can turn on the bottom light or the back light or both. He can adjust the intensity of the backlight and the speed of the spinning motor by two potentiometers in the front of the bench.

By PLC display on front panel of he can set the duration of spinning and visualizes the speed of spinning in order to have a repeatable condition of test.

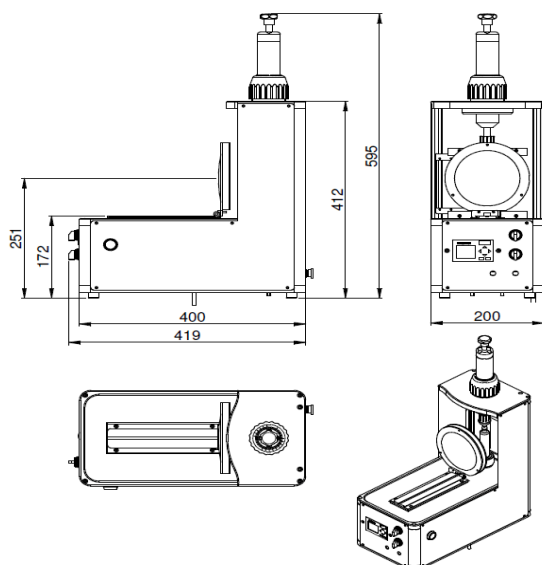
Operator puts the container in the spindle and presses the pushbutton on the side of the bench; the container rotates and then suddenly stops.



The particles inside the liquid twirls and become easily visible. Operator uses a lens to better identify their presence. The lens has adjustable position for better comfort of the operator. Operator can choose white background, or illuminated or total dark (using a sliding black mask). An additional mask, between the container and the lens, is used to cover the undesired reflections of the meniscus.



+ Technical Specifications and Layout



Dimensions (LxWxH)

420 x 200 x 600

Weight

12 Kg

Electrical / Power

230V \pm 10% 50/60Hz 1 Ph 250W

Containers dimensions

1 to 250 ml

Containers types

Ampoules, cartridges and vials

Container sizes

$\varnothing 8 \div \varnothing 52$ mm

Maximum containers height

130 mm