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 using 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 ± 10%  50/60Hz 1 Ph 250W

Containers dimensions
1 to 250 ml

Containers types
Ampoules, cartridges and vials

Container sizes
Ø8 ÷ Ø52 mm

Maximum containers height
130 mm