Model: EH-5500W

Bottle water volume automatic measurement equipment

Correspond to full pour, putting volume measurement It is contributing to rationalization of test times



Volume Measurement Method

Measure setting bottle, weight (electric balance) and water temperature (temperature sensor of waterway) and measure putting weight, volume. It is calculated volume from approximate specific gravity and water temperature.

General

This equipment is measuring automatically water volume of PET bottle and outputs real-time data and total up the data. It is enable to automatic measurement together with I/O signal of robot. (Option at order)

Characteristics

- Target bottle
 200ml-2.0L, transparent, coloring bottles
- 2. Applied water
 - General city water (Room temperature K20±10°C) (direct supplying)
 - It is keeping to minimize bubble when fill up water
- 3. Real-time data display
 - Container weight
 - Puttingweight
 - Putting volume
 - Full pour weight
 - Full pour volume

Note: It is available to pass putting volume measurement

- 4. Easy changing bottle
 - Measurement condition register of 100 model bottles

- Exchangeable bottle model (measurement condition and bottle types) by section of registered measurement condition
- About 10 seconds to change bottle centering tool
- 5. Measuring method
 - Electric balance for container weight
 - A class thermometer for water temperature
 - Gross weight minus container weight on electric balance is water weight
 - Water volume is calculated by specific gravity

Note: It is measuring bottle height from setting supply water position

- 6. Setting applied water
 - Putting water: Setting weight / Setting height (Standard at top surface)
 - Full pour: Any putting at top surface (Top surface - large portion, etc.)



Specifications

1. Measurement method Calculate volume from specific gravity calculation approximate from water temperature 2. Work set Semi-automatic (It is manual initial bottle set and discharge) 3. Target work Plastic (PET) bottle / Glass Bottle 4. Work size Example: PET bottle Maximum: 2.0L square bottle (D89×W106×H305mm) Minimum: Body radius 50mm, height 10mm Bottle height: Min. H100 - Max. 320mm Bottle mouth inner diameter: 20mm diameter min. 5. Bottle volume 200ml-2.0L Example: 500ml 1piece/60 seconds max.(From measurement to discharge) 6. Measurement speed (All items measurement) 2.0L 1piece/about 130 seconds. (From measurement to discharge) 7. Applied water temperature Room temperature K20±10°C (general city water) 8. Measurement item 1. Putting line volume - Reproduce accuracy: ±0.9ml max. and accuracy 2. Full pour volume -Reproduce accuracy: ±0.9ml max. 3. Putting height line - Reproduce accuracy: ±1.0mm max. 4. Water temperature - Reproduce accuracy: ±0.3°C+0.0051t1°C (Platinum valve resistance thermometer pt100 3 wires A class) 5. Bottle weight -Reproduce accuracy: ±0.2g max. 9. Operating Software Microsoft Windows 7 10. Data output CSV form 11. Data save HDD in operating computer 12. Print Measurement data 13. Applied air 0.5Mpa min. 14. Environment Temperature 10~40°C 15. Line Voltage Selectable 100 /120 /220 /240V 50/60Hz 16. Size Total W450xH800xD700mm (standard) 17. Weight Total 70Kg max. depending on user's specification Power consumption 2.5A max. (For total equipment) Other products ☐ Bottle sink (Bottle bottom height measurement) ☐ Topload tester (Load deformation test equipment) ■ Bottle pressure-resistant measurement ☐ Bottle & Preform mouth dimension measurement ■ Bottle thickness automatic measurement ☐ Body outline form measurement ☐ Bottle can mouth dimension measurement ☐ Static image storage (GRS) ■ Bottle height • body diameter measurement Decrease pressure-resistant measurement The specification and externals might be changed without a previous notice because of the improvement.

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