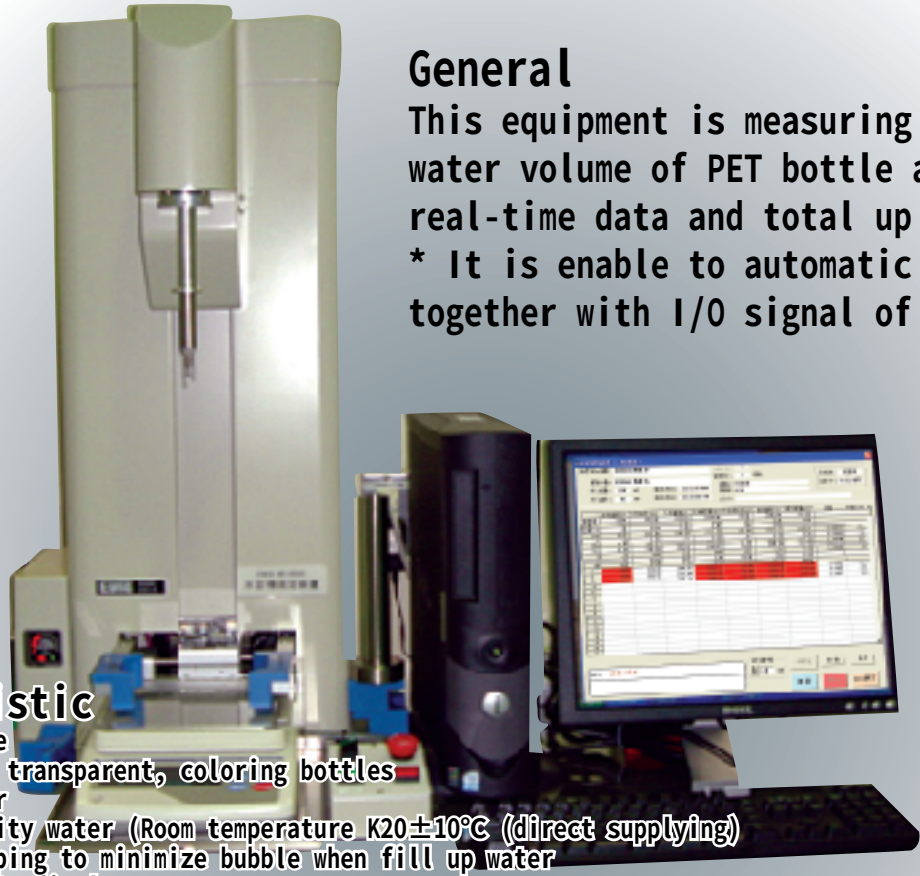
Bottle water volume automatic measurement equipment

Model ME-5500

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



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)

Characteristic

1. Target bottle
   200ml-2.0L, transparent, coloring bottles
2. Applied water
   ①General city water (Room temperature K20±10℃ (direct supplying)
   ②It is keeping to minimize bubble when fill up water
3. Real-time data display
   ①Container weight ②Putting weight ③Putting volume ④Full pour weight
   ⑤ Full pour volume
   Note: It is available to pass putting volume measurement
4. Easy changing bottle
   ①Measurement condition register of 100 model bottles
   ②Exchangeable bottle model (measurement condition and bottle types) by section of registered measurement condition
   ③About 10 seconds to change bottle centering tool
5. Measuring method
   ①Electric balance for container weight
   ②A class thermometer for water temperature
   ③Gross weight minus container weight on electric balance is water weight
   ④Water volume is calculated by specific gravity approximation of water temperature
   Note: It is measuring bottle height from setting supply water position
6. Setting applied water
   ①Putting water ・・・ Setting weight・Setting height (Standard at top surface)
   ②Full pour ・・・ Any putting at top surface
   (Top surface - large portion, etc.)

Volume Measurement Method

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

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Specification

Item	
Measurement method	Calculate volume from specific gravity calculation approximate from water temperature
Work set	Semi-automatic (It is manual initial bottle set and discharge)
Target work	Plastic (PET) bottle・Glass Bottle
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.
Bottle volume	200ml-2.0L
Measurement speed (All items measurement)	Example; 500ml 1piece/60 seconds max. (From measurement to discharge) 2.0L 1piece/about 130 seconds. (From measurement to discharge)
Applied water temperature	Room temperature K20±10℃ (general city water)
Measurement item and accuracy	①Putting line volume Reproduce accuracy : ±0.9ml max. ②Full pour volume Reproduce accuracy : ±0.9ml max. ③Putting height line Reproduce accuracy : ±1.0mm max. ④Water temperature Reproduce accuracy : ±0.3℃+0.0051t1℃ (Platinum valve resistance thermometer pt100 3 wires A class) ⑤Bottle weight Reproduce accuracy : ±0.2g max,
Operating software	Microsoft Windows-XP
Data output	CSV form
Data save	HDD in operating computer
Print	Measurement data
Applied air	0.5Mpa min. (Note: 0.098Mpa=1kgf/cm2)
Environment	Temperature 10 ～ 40℃
Line Voltage	Selectable 100 /120 /220 /240V 50/60Hz
Size	Total W450xH800xD700mm (standard)
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)
☐Bottle pressure-resistant measurement
☐Bottle thickness automatic measurement
☐Bottle can mouth dimension measurement
☐Bottle height・body diameter measurement
☐Decrease pressure-resistant measurement
☐Topload tester (Load deformation test equipment)
☐Bottle & Preform mouth dimension measurement
☐Infrared thermometer for bottle preform
☐Body outline form measurement
☐Static image storage (GRS)

The specification and externals might be changed without a previous notice because of the improvement.

Sale・ Project ・Maintenance
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