Bottle Height, Body Diameter, Swing Measurement Equipment

Model ME-2000

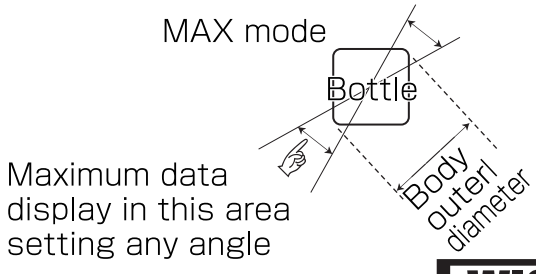
General

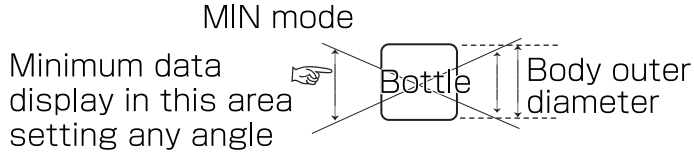
This equipment is automatically measuring the PET bottle body diameter, height, neck swing and display the real-time data on computer display and total up the data.
* It is enable to measure together with other measurement equipments to use the robot.

Characteristic

This equipment is available in the following 3 items to correct measure the body outer diameter.

1 MAX mode: Data output for maximum data of setting angle range at any point
2 MIN mode: Data output for minimum data of setting angle range at any point
3 Normal mode: Data output of the setting angle after set the bottle





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Specification

1	Measuring system	①Body outer diameter : Laser, non-contact method ②Total height : Linear gauge, non-contact ③Incline : Laser, non-contact method
2	Measurement method	Body outer diameter : ①Normal mode : ②Max mode : ③Min mode
3	Measurement size	Height : 50 − 320mm Outer diameter : 50 − 120mm
4	Measurement accuracy	①Body outer diameter･Height : σ5μm max. for 10 times of repeated master gauge measurement ②Swing : σ ±20μm max. for 10 times of repeated master gauge measurement (Height 280mm position) ③Depends on molding condition for the bottle
5	Measurement range measurement point	①Body outer diameter, height, circumference angle Setting height : 1 − 50 points setting circumference angle : 1−12 points ②Height : 1 − 8 points at any angle position from bottle top surface ③Swing : 2 − 12 points at any height
6	Measurement time	Depends on measurement setting condition (measurement point) Example : 10 body outer diameter, 4 height, 8 incline ・・・・about 60 sec.
7	Continuous Measurement number	100 pieces
8	Measurement requirement set up	Max. 100 types (model) setting condition save
9	Data representation	Second decimal places (###.##) Note : Round off to two decimal places
10	Data output	Text file, CSV form
11	Data total up	Average, maximum, minimum, standard deviation(σ)･R･Cp･Cpk
12	Re-measurement function	Available
13	Print	A4 size
14	Interface	RS-232C
15	Computer	Microsoft Windows-XP
16	Environment temperature	10～40℃
17	Environment humidity	20～80%
18	Operation Environment	Without Dew forms, dust, corrosion gas
19	Size	W900×H1850×D700mm
20	Weight	350Kg max.
21	Power consumption	300W
22	Utility	Selectable AC100V±10% 50/60Hz Air : 0.4− 0.5Mpa min.(One piece)
23	Accessory	Tool for setting center of bottle, calibration gauge

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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