

Specifications

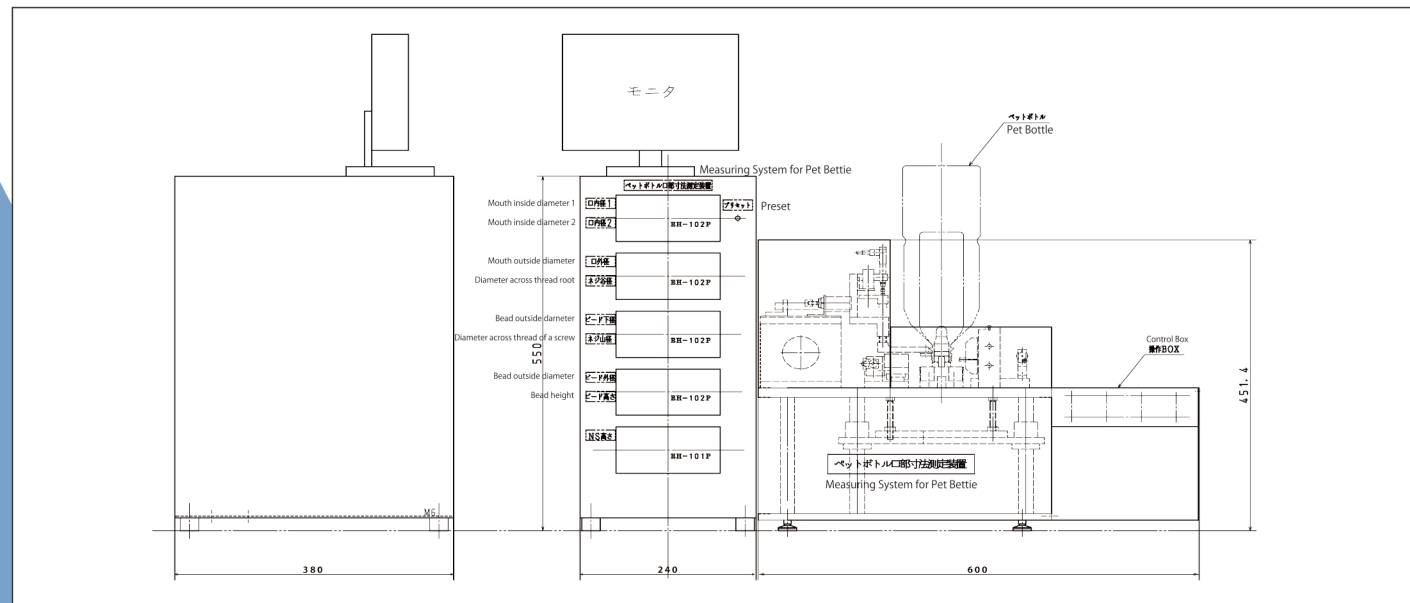
- 1. Measuring head
Type: Special outside/inside diameter measuring head (linear gauge type)
Sensor : LGB-105L x 9 sets
Measuring force: Approx. 2N (about 200 gf)
Probe: Provided with an open/close mechanism
- 2. Display
Indicator: EH-102P x 4 sets / EH-101R x 1 sets
Resolution: 0.001 mm (1μm)
GO/NG judgement: 3 or 5 classes
Interface: RS-232C
Cable: RS link cable x 4 pcs
- 3. Measurement accuracy
Indication accuracy: 5 μm or less
Repeatability: 4μm or less in terms of standard deviation (σ) when repeatedly measuring the maser gauge 10 times at a fixed point (σcaluculatio : n -1).
- 4. Workpiece loading
Manual loading
Automatic loading function is optional.
- 5. Measurement procedure
1. Turn on the power and the air supply.
2. Calibrate the MTY - 7000 and check repeatability (for about 2 minutes).
3. Measure the workpiece (pet bottle & preform) and process the data obtained.
4. Operation is completed (turn off the power and the air supply)
- 6. Cycle time
Within 4 sec from the _mo_ ment the switch is pressed ON to the measured Values is displayed.
- 7. Dimensions
Main unit : 500 W × 610H × 340D mm
Display for measured values : 240W × 580H × 380D mm
- 8. Line Voltage
Selectable 100V±10% 50/60 Hz 300VA
- 9. Compressed air source
0.4 to 0.5 MPa (approx. 4.1 to 5.2 Kg/cm²)
- 10. Mass
50kg or less (standard)

-Contact Type- Measuring System for Plastic Bottle & Preform

**Exclusively designed for mouth diameters measurement
(outside/inside measurement)**

- *Measuring time: 4 sec or less
- *Measuring accuracy: 5 μm or less
- *Repeatability: 4 μm or less

Machine External Dimensions



Specifications and the external View are subject to change without notice.



Sale · Project · Maintenance

EWIG Co., Ltd.

150-0013 RABANKA III 3F
3-3-3 Ebisu, Shibuya-ku, Tokyo, Japan.
TEL: +81-3-3446-3395 FAX: +81-3-3446-3396
E-mail: sales@ewig.jp URL: http://www.ewig.jp/

Distributor

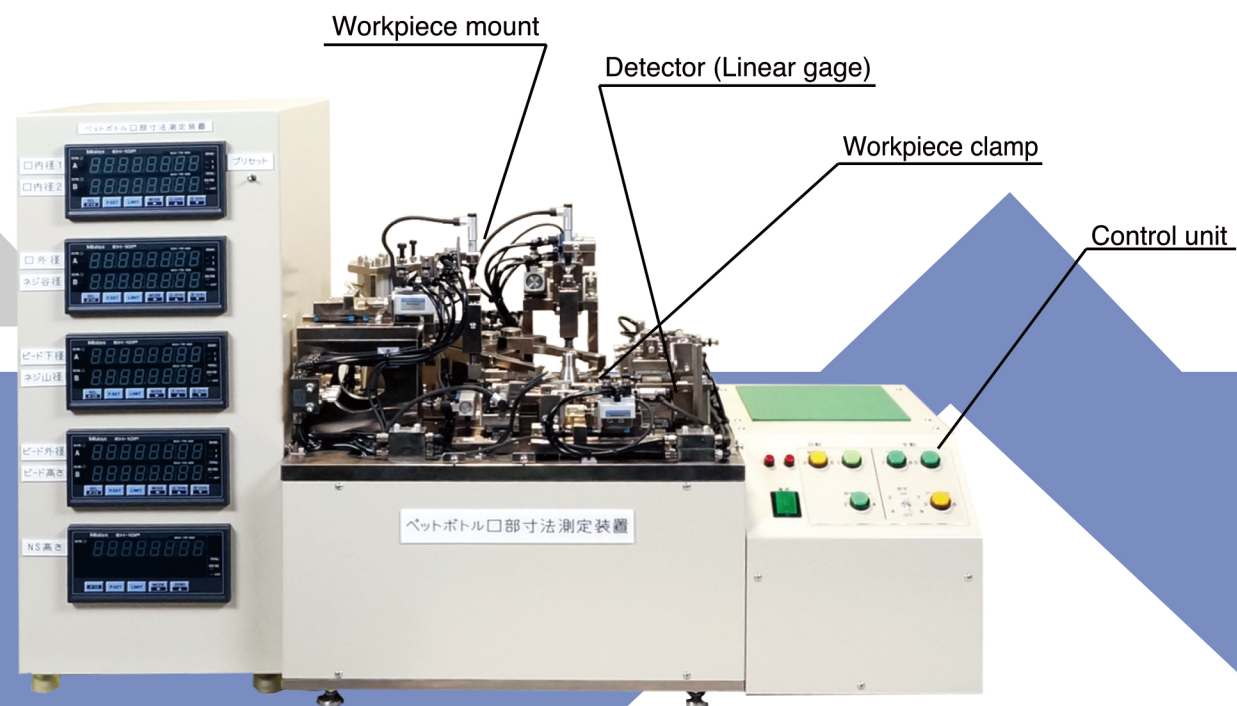
Revolutionary Simplified Pet Bottle Preform Measurement!

The MTY-7000 equipped with specially designed linear gauge measuring heads measures the pet bottle & preform bottle of PCO • 1716 model mouth inside diameter (2 points). diameter across thread of screw. diameter across thread root. height. and neck support height with following features.

Characteristics

1. Measuring time is as short as 4 seconds in any one direction.
2. The MTY-7000 offers an accuracy of 4 μm or less in terms of σ when repeated measuring the master gauge 10 times at a fixed point.
3. The measured Values are digital displayed.
4. GO/NG judgement result is indicated by the lamps. (Tolerances can be set as desired.)
GO: The green lamp lights.
+NG: The red lamp lights.
- NG: The amber lamp lights.
5. The measurement data can be output via the RS-232C interface.
6. The MTY-7000 is a semi-automatic measuring system that allows easy operation and simplified measurement.
7. With a small CCD camera, the condition of the workpiece (pet bottle preform) setting can be checked. (12-inch color monitor is supplied together)
8. The MTY - 7000 is designed with operational safety in mind.
9. The workpiece (pet bottle & preform) can be measured from two directions (from the angles at 0° and 90°). (Automatic 90° -workpiece-rotation function is optional)

External View of the MTY-7000



An example of objects to be measured and measuring points

Workpiece: Pet Bottle & Preform

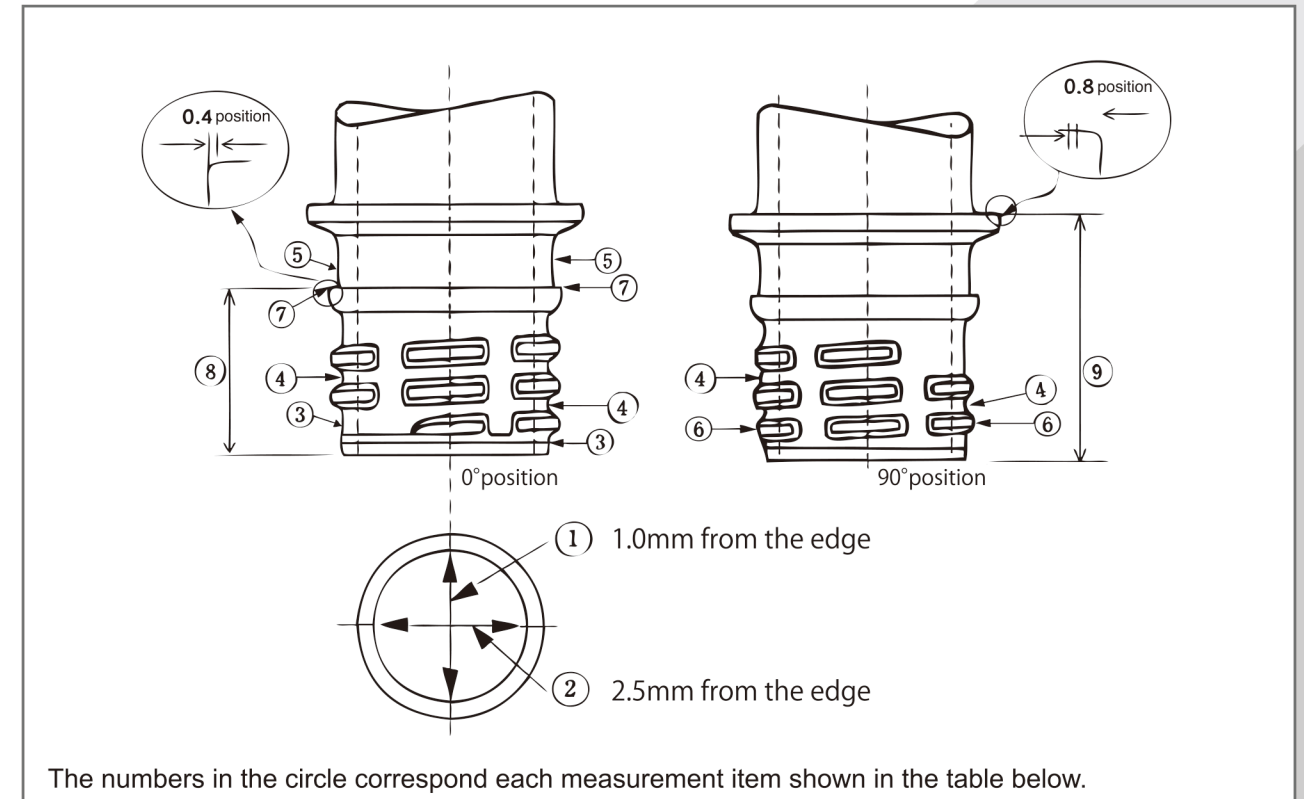
Applicable workpiece capacity: 200ml, 500ml, 900ml, 600ml, 1000ml, 1500ml, and 2000ml.

Measurement positions/points (the master gauge is shown as an example in the figure below)

Detailed measurement positions: Shown below.

Measurement points: Described in the table below.

Remarks: The following measurement positions/ points are just for example and measured when our demonstrative machine is used. Upon your request, the machine based on other specifications can be supplied as far as its production is within our capacity.



The numbers in the circle correspond each measurement item shown in the table below.

unit : mm

Measurement item / position / number	Initial setting of measurement position (at 0° position)	Master gauge nominal size	Master gauge measured Value
① Mouth inside diameter	Position 1.0 mm away from top	φ20.60	±0.05
② Mouth inside diameter	Position 1.0 mm away from top	φ20.60	±0.05
③ Mouth inside diameter	Position 2.0 mm away from top or position 2.0mm away from top (a user speciality)	φ24.94	±0.08
④ Diameter across thread root	Diameter across thread root (at 0° position)	φ24.94	±0.08
⑤ Body outside diameter 2	Distance between Bead and neck support	φ25.71	±0.08
⑥ Diameter across thread of a screw	First thread from top	φ24.94	±0.08
⑦ Bead outside diameter	Outside diameter	φ27.97	±0.08
⑧ Bead height	Distance from top to Kabura (0.8mm from the edge)	14.10	±0.08
⑨ Neck support height	Distance from top to neck support (0.8mm from the edge)	21.01	±0.08

The measurement conditions in the table are initial set values (at an angle at which the pet bottle & preform is first set). Refer to the illustration above for this initial setting.