



The PEBT-4000 PET Bottle Pressure Tester is an advance testing equipment specialized for testing the PET bottles. It has been designed in conformity to the three international commonly used testing methods: (1) Ramp Fill Mode; (2) Burst Mode; (3) User-Defined Mode.

The machine uses touch screen interface with automatic affusion, clamping the sample and testing. Pressurizing process is controlled by servo valve. Test data is displayed and test results are recorded. The system is able to connect to PC with professional CND-PEBT software displaying pressure and volume expansion curve.



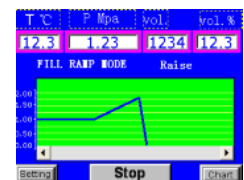
Benefits:

- Simple and convenient operating
- Touch-screen controlled
- Graph displaying of the testing curve
- Comprehensive report data after tests

Most Commonly Used International Testing Methods:

Ramp Fill Mode:

The fill ramp mode was designed to simulate the situation of PET bottle filling lines. In this mode, PET bottles will be pressurized rapidly to the pre-set initial pressure and hold for 13 seconds. Then continue to pressurize with a speed of 10 pound/inch² (0.69kg/cm²) until the bottle bursts or reaches the max. pressure or volume. Pre-set parameters include: pre-set initial pressure, max. pressure and volume expansion limit.



Burst Mode:

In this mode, PET bottles will be pressurized rapidly to the pre-set pressure value and held for a period of time (as pre-set). Test parameters include: burst pressure, testing time and volume expansion limit.



User-Defined Mode:

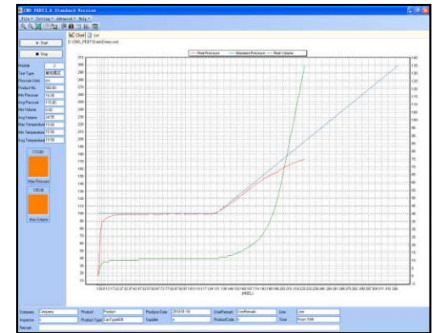
The User-defined mode is able to create the unique pressurizing curve to meet special testing requirements. Users can set the pressurizing curve by stages, after the setting is made, the corresponding curve will display on the user interface.





Features:

- Controlled via touch screen, with RS232 data output and CND-PEBT software.
- Applicable for different sized PET bottles
- Graphical real-time testing curve display
- Comprehensive report data
- Protection shield is equipped near the water outlet preventing fragment block after sample burst. Assembled with external filter, reducing the influence on the gauge caused by impurity in water.
- Solenoid Valve and high-pressure filter are installed between water cylinder and servo valve to prevent water flowing back to servo valve from the fulfilled water cylinder in case the level sensor became problematic.
- Pressure reducing valve is installed on air inlet in case of the over high pressure supply causing damage to the gauge.
- High-pressure filter is installed on air inlet to prevent the impurity of air supply damaging the servo valve.
- Pressure releasing valve is installed in test station to release the air quickly protecting the machine from the rushing pressure when the bottle burst.
- Electrical station is separated from pressurizing station to prevent from the water entering. Filling head, copper clamp and connector of calibration meter are durable and anti- verdigris after chromating treatment.
- Extra door lock device is assembled to protect operator during the test. With the door proximity switch, test will not start unless the door is closed, which is in conformity to safety protecting requirement.
- With calibration function, configured with a pressure calibration meter and a volume calibration flask, convenient for calibrating.



Technical Data:

Operating Pressure Range :	0-300 Psi (0-20.7 bars)
Accuracy :	±3 Psi (±0.2 bar)
Pressure Measuring units :	Psi, kg/cm2, bars, MPa (user defined)
Volume Expansion Measuring units :	Milliliters (ml)
Pressure Source :	Recommended to use Nitrogen gas (not supplied)
Water Source :	0.1 - 0.3 MPa tap water
Operating Temperature :	0-50°C
Power Supply :	110-120 or 220/240VAC @ 50/60 Hz
Expansion Capability :	2 L Bottle Sizes Supported ; Up to 3L (depending on expansion percentage)
Output Interface :	Standard serial link
Dimensions :	830×580×1600 mm (W × D × H)
Weight :	120KG



**Auto Sample Clamping
Auto Water Fill
Auto Testing**