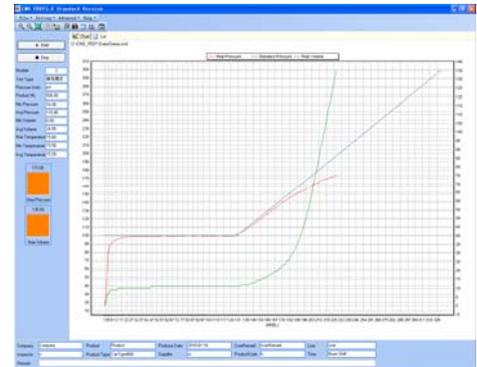


CanNeed-PEBT-4000

PET Bottle Pressure Tester (Burst Tester)



CND-PEBT Software

Display the pressure and the volume expansion curve



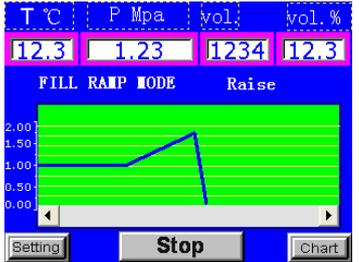
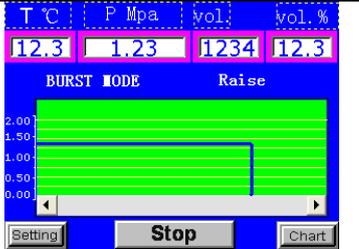
**Auto clamping sample
Auto water filling
Auto testing**

- 1) Three (3) international commonly used testing methods: Fill Ramp mode, Burst mode, User-defined mode
- 2) Touch-screen controlled, display the real-time testing data
- 3) During the testing, CND-PEBT software can display the curve of pressure and volume expansion, and provide the relevant temperature data.

CanNeed-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. CanNeed-PEBT-4000 is able to test the pressure capabilities that under a set pressure or the burst test in order to check whether the PET bottle is qualified to meet the requirement of packaging industry.

CanNeed-PEBT-4000 uses touch screen interface with automatic affusion, clamping the sample and testing. Pressurizing process is controlled by servo valve. Test data is displayed currently and test result is recorded. It's able to connect to PC with professional CND-PEBT software displaying current pressure and volume expansion curve.

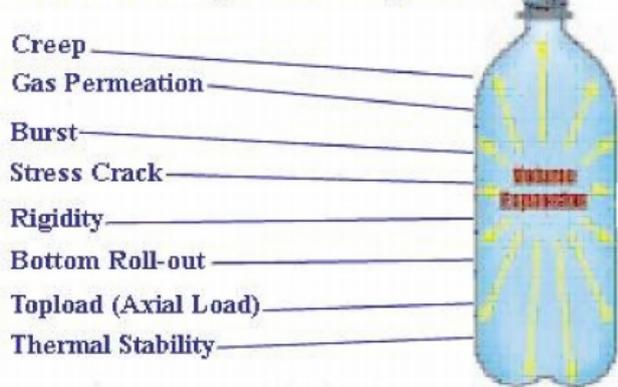
Three (3) international commonly used testing methods

<p>Fill Ramp mode:</p> <p>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 preset 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. Preset parameters include: preset initial pressure, max. pressure and volume expansion limit.</p>	
<p>Burst mode:</p> <p>In this mode, PET bottles will be pressurized rapidly to the preset pressure value and hold for a period as preset. Preset parameters include: burst pressure, testing time and volume expansion limit.</p>	
<p>User-defined mode:</p> <p>The User-defined mode of CanNeed-PEBT-4000 is able to create the unique pressurizing curve to meet the special testing requirements. Users can set the pressurizing curve by stages, after the setting is done, the corresponding curve will display on the user interface.</p>	

CanNeed-PEBT-4000 is the standard equipment for PET bottle industry. It can help to improve the PET bottle performance.

CanNeed-PEBT-4000 is a standard equipment for testing the PET bottle performance. The PET bottle volume expansion is related to many key PET bottle performance factors, those factors including creep, gas permeation, burst, stress cracks, rigidity, bottom roll-out, top load (axial load), and thermal stability.

Key PET bottle Performance Factors that Affected by Volume Expansion



Advantage after optimization:



Weight hammer is assembled for lifting or pulling down the door, saving effort of operators and preventing injury causing by door falling down. Improved friendly operation.



Water collecting box is installed on the side door of test station and labyrinth water eliminator is installed inside the collector to develop the ability of releasing pressure when the bottle burst. Release the pressure in time and reduce water splitting from the top of the door.

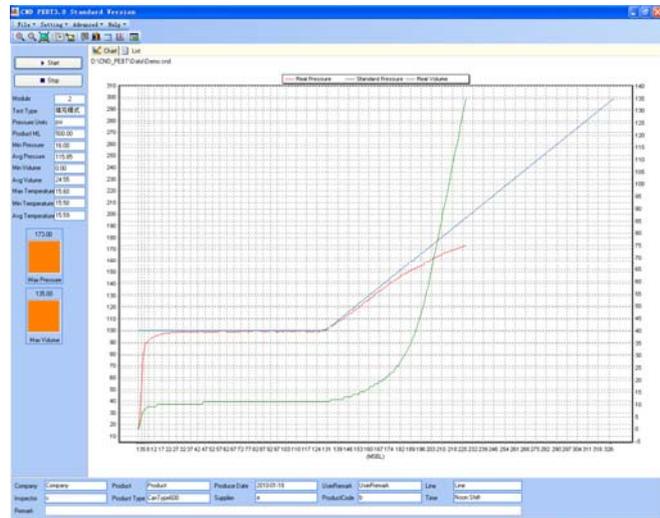
Precise pressure reducing valve made of stainless steel is assembled in air connection of the instrument to provide stable and accurate air supply.

The advanced CND-PEBT professional software

Use the CND-PEBT professional software to build up the communication of CanNeed-PEBT-4000 and computer, the software can save and manage the testing data, display the real-time curve of pressure and volume expansion, monitor and record the water temperature during the testing process.

User-friendly Operating Interface

CanNeed-PEBT-4000 adopted the touch-screen for all the controlling operation and testing data displaying.



Features of User Interface:

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

Advantages:

- Standard equipment for PET bottle industry.
- Three (3) international commonly used testing methods, controlled by touch screen, with RS232C data output, CND-PEBT Professional software.
- Preset test mode and user-defined mode. Display the curve of pressure and volume expansion, monitor and record the water temperature during the test.
- Applicable for different sizes of plastic bottles.
- Adopt imported displacement sensor with excellent function.
- Adopt imported servo valve to meet the big flow test requirement and ensure the pressurizing speed for the big PET bottle expanding.
- All pressure connection adopt Parker Lucifer, sleeve type connector, high-pressure hose, imported qualified cylinder and connector.
- 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 protection door lock device is assembled to prevent the misoperation 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