Lab Equipment Designer & Manufacturer

Quality Control, Inspection & process Measurement Equipment





Preform Polariscope



Preform Cutter



Automatic Hot Wire Cutter



Cap Torque Tester



Glass Bottle Burst



PET Bottle Burst



Stress Crack Tester



Manual Secure Seal Tester



Automatic CO2 Tester



Manual CO2 Tester



Automatic Torque Tester



Automatic Top Load Tester

About NAPCO

NAPCO operates in the field of design, manufacturing, sales, and after - sales services of quality control equipment. The company supplies measurement and process control equipment for various industries. NAPCO strives to meet customer needs by providing technical consulting, professional support, and cost - effective solutions.

NAPCO Servises

Quality Control Equipment Selection Consulting



With the experience and expertise of its managers in various industrial production lines, including the beverage and food industries, perform and cap manufacturing, as well as more than two decades of experience in producing quality control equipment, NAPCO is ready to provide expert advice and help manufacturers select the most suitable and cost - effective equipment for their quality control processes.

Technical & Engineering Services



- Periodic servicing and maintenance at the customer`s site
- Emergency repairs at the customer`s site
- Equipment calibration
- Equipment repair, modification, and upgrades
- Repair services for equipment from other brands

Equipment Spare Parts Supply



To respond quickly to customer needs, NAPCO keeps spare parts for its equipment in stock, allowing parts to be shipped to customers without delay.

Equipment Calibration



NAPCO calibrates all of its supplied quality control and measurement equipment using trained and experienced technicians, in cooperation with reference laboratories and according to high standards.

Equipment Training



NAPCO provides specialized training courses for operators, laboratory technicians, electrical technicians, and advanced users. The training covers equipment operating principles, proper operation, maintenance, safety guidelines, and calibration procedures.

Equipment List

Manual Cap Torque Tester - MCT

This digital torque meter is designed to measure torque with high accuracy and special capabilities. It features automatic removal of axial and non-axial forces, a battery-saving mode, a touchscreen, and a rechargeable battery. The divice supports data storage and testing, with the ability to connect to a computer via WI-FI cable and view test results online on a computer.



Automatic Cap Torque Tester - SCT

This device simulates the actual torque applied to a product when a cap is closed. It measures and displays the torque required to open the cap. The device can be connected to a computer through a network port, and all its settings and data can be displayed and managed through the computer.



Automatic Shaker CO2 Tester - ASCT

This device is fully automatic measuring system for **CO2 content in carbonated products,** designed as a two-chamber system. It is suitable for use in factories for testing all types of carbonated beverages. The device can perform the entire testing process automatically and display the results digitally. It can also be connected to a computer via a network port to transfer and monitor test data.



Clamp CO2 Tester - CCT

This device is a fast and efficient system for measuring **CO2 content in carbonated products.** It uses a digital pressure gauge and a precise pressure sensor to provide accurate and repeatable measurements. The device calculates the amount of dissolved CO2 and also provides the resulting pressure based on the test temperature.



Bottle Pressure and Vacuum Tester Model S - BPVS

This device is designed to measure the **pressure and CO2 content of PET** bottles and carbonated products within a specified time period. It use a high-precision pressure gauge and is suitable for routine quality control and testing applications.



Bottle Pressure and Vacuum Tester Model C - BPVC

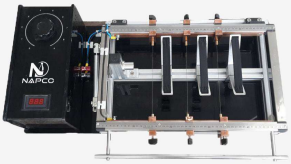
This device is designed to measure the **pressure and vacuum of PET** bottles and carbonated products within a specified time period. It uses a high-precision pressure gauge and is suitable for quality control and routine testing applications.



Equipment List

Manual Hot Wire Bottle Cutter - MHWC

A cost-effective device designed for easy bottle cutting for **section weight testing.** It provides one of the simplest and fastest methods for cutting PET bottles. The device can cut bottles into a maximum of **four sections.**



Automatic Hot Wire Cutter - AHWC

A precision cutting device with an attractive design and a protective chamber that helps prevent the spread of **CO2 and fumes generated during PET cutting** .It is equipped with a servo motor system for accurate and repeatable bottle cutting. **cutting speed and heating - element temperature** can be controlled throughout the test.



Automatic Hot Wire Cutter & Weight

An automatic linear cutting system equipped with a **programmable servo system** for cutting and weighing bottle sections with high accuracy. The system also provide the capability to **generate reports of completed tests.**



Burst Tester for PET Bottle - BTP

A device designed to simulate production conditions for **carbonated products.** It is used before production to identify potential weak points in PET bottles. The device allows the bottle`s weak points to be evaluated under **high-pressure conditions,** helping prevent product rejection and production-related issues.



Burst Tester for Glass Bottle - BTG

This device is designed to ensure the **pressure resistance of glass bottles** used in the production of carbonated products. It supports various testing methods, from the **bottle neck to the base,** while also providing enhanced operator safety. The device can record and store the **pressure test graph** and transfer the data to a computer.



Manual Secure Seal Tester - MSS

This device is designed to evaluate sealing quality and ensure the integrity of bottle caps. Equipped with a dedicated opening mechanism, it allows various products to be tested. Different types of caps, including classic caps, can also be tested using this device.



Equipment List

Semi - Automatic Secure Seal Tester - SASS

This device is designed to evaluate sealing quality and ensure leak -proof performance of bottle caps. Equipped with a dedicated cap -opening mechanism, it can test various products. The preset pressure profile is automatically applied to the product according to the selected test pattern.



Automatic Dry Secure Seal Tester - ASS

This device automatically prepares the bottle for testing, submerges it in a water bath, and applies a preset pressure profile to determine the product`s sealing failure point. With this machine, you can ensure the product`s resistance under various transportation, warehousing, and sales conditions.



Automatic Secure Seal Tester - ADSS

This device displays the actual leakage resistance of the product under different pressures. Its highly sensitive CO2 leakage sensor detects even the smallest amount of gas leakage and eliminates the need for an operator to be present during testing.



Manual Top Load Tester - MTL

This device uses a **load cell** and controller to apply the maximum required compressive force to the sample. It is suitable for testing **PET bottle that require loads of up to 50 kgf.** The height of the device can be adjusted as required.



Automatic Top Load Tester for PET Bottles - ATLP

This device features adjustable **height and load** and uses a control system to generate the required force curve for applying load to the product. It can simulate the required **compressive force**, providing accurate and repeatable quality - control testing. The maximum applied force is 200 kgf.



Automatic Top Load Tester for Glass Bottles - ATLG

This device uses a **servo motor** and load cell to apply compressive force to glass bottles. It provides an accurate force graph during testing and features high precision and repeatability.The maximum applied force of this device is 2500 kgf.



Equipment List

Manual PET Stress Crack Tester - MPSC



This device is designed to identify weaknesses in PET bottle when exposed to a diluted caustic soda solution. In a fully enclosed and safe chamber, bottles are placed under pressure while exposed to the diluted solution. The system records the bottle resistance time under these conditions.

Drop Tester for PET Bottle - DTP



This device is designed to test products during production, transportation, and sale, where they may be subjected to impact caused by falling from a certain height. It helps manufacturers identify potential weaknesses in bottles and packaging and determine suitable drop heights and impact conditions before the products reach the market.

Bottle perpendicularity Gauge - BPG



This device accurately measures the deviation from the central axis of PET and glass bottles. Excessive deviation from the bottle`s center axis can cause various problems during filling and production, potentially resulting in improper operation and bottle deformation.

Impact Tester for Glass Bottle - ITGB



A precision device designed to apply impact to glass bottle from different directions and measure their resistance. This device is used to evaluate the strength and impact resistance of glass bottles during production, helping prevent product damage and breakage during manufacturing and distribution.

Glass Bottle Thermal Shock - GBTS



A testing device designed to evaluate the therma l shock resistance of glass bottle used for beverages and pharmaceutical products. Thermal shock testing is performed by exposing the bottle to sudden temperature changes, typically involving hot and cold water, over a short period of time.

Bottle Thickness Meter - BTM



This instrument is used to measure the thickness of glass bottle walls. Uniformity of glass bottle thickness is one of the important quality parameters that consumers generally consider when evaluating product quality.

Equipment List

PET Preform Thickness Gauge - P2TG

An instrument designed to measure the **wall thickness variation of PET preforms**, which may not be visible to the naked eye and generally occurs at the corners of the preform mold. A thickness variation of more than **0.2mm** can cause significant problems during bottle production and may result in bottle breakage.



PET Preform Perpendicularity Gauge - P3G

This instrument is designed to measure the **verticality / deviation of PET preforms.** Deviation is generally caused by improper alignment during production. A deviation of more than approximately **2 mm** can lead to significant problems when the preform is converted into a bottle.



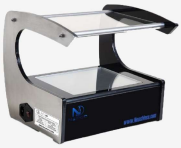
PET Preform Profile Cutter - Benchtop - P3CB and Handheld - P2CH

These professional tools are designed for cutting preforms of various widths and lengths. The manual preform cutter allows cutting in one direction only, while the preform cutter supports cutting in both length and width. The manual operation of these two devices provides greater control and enhances operational safety.



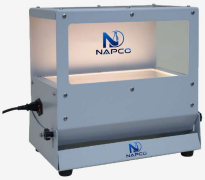
PET Preform Polariscope - Glass Body - P3GB

A specialized device for detecting **defects in preforms that cannot be observed with the naked eye.** Defects such as improper orientation, uneven distribution, or incorrect cooling after production can be identified using this device. A polariscope is recommended for all preform manufacturing plants and consumers.



PET Preform Polariscope - Metal Body - P3MB

A specialized device for detecting **internal defects in preforms that are not visible to the naked eye.** It features a metal body with adjustable lighting and a glass model, this is a professional device designed for **preform manufacturing facilities.**



PET Preform GO - NO - GO Gauge - P2GN

A simple and precise tool for **checking preform neck dimensions**, which are generally standardized during production. Incorrect dimensions can cause problems during transportation and handling and may result in **jamming and misalignment of preforms.**



NAPCO

Contact Us



Accuracy & Quality

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