NAPCO

Automatic Hot WireCutter

AHWC-100



Sales Catalog

Explore the Unique Features of Our Hot Wire Cutter



The NAPCO (AHWC model) automatic hot wire PET bottle cutter offers an advanced, ultra-precise, and standards-compliant solution for thermal cutting of polymer containers without causing mechanical stress, deformation, or burrs. Using a PLC control system, constant-tension heating wires, and a protective safety cabinet, this device enables fast and flawless sample cutting for SECTION WEIGHT testing. With full compliance with ISBT international standards and guaranteed spare-parts supply, it is an ideal choice for improving precision in bottling line quality control and packaging QC laboratories.

A wide range of products across various industries — from lightweight beverage bottles to sensitive dairy, hygiene, and pharmaceutical containers — require precise material distribution analysis and Section Weight Analysis (SWT) testing to ensure mechanical integrity and structural stability.

Section geometry — whether analyzing bottle dimensions, wall thickness distribution, or segment weight variations — is a critical factor in assessing physical integrity and process reliability.

NAPCO's automatic hot-wire cutter solutions serve as an essential part of your quality management system. They allow you to conduct precise Section Weight measurements in full compliance with ISBT international protocols and standards.



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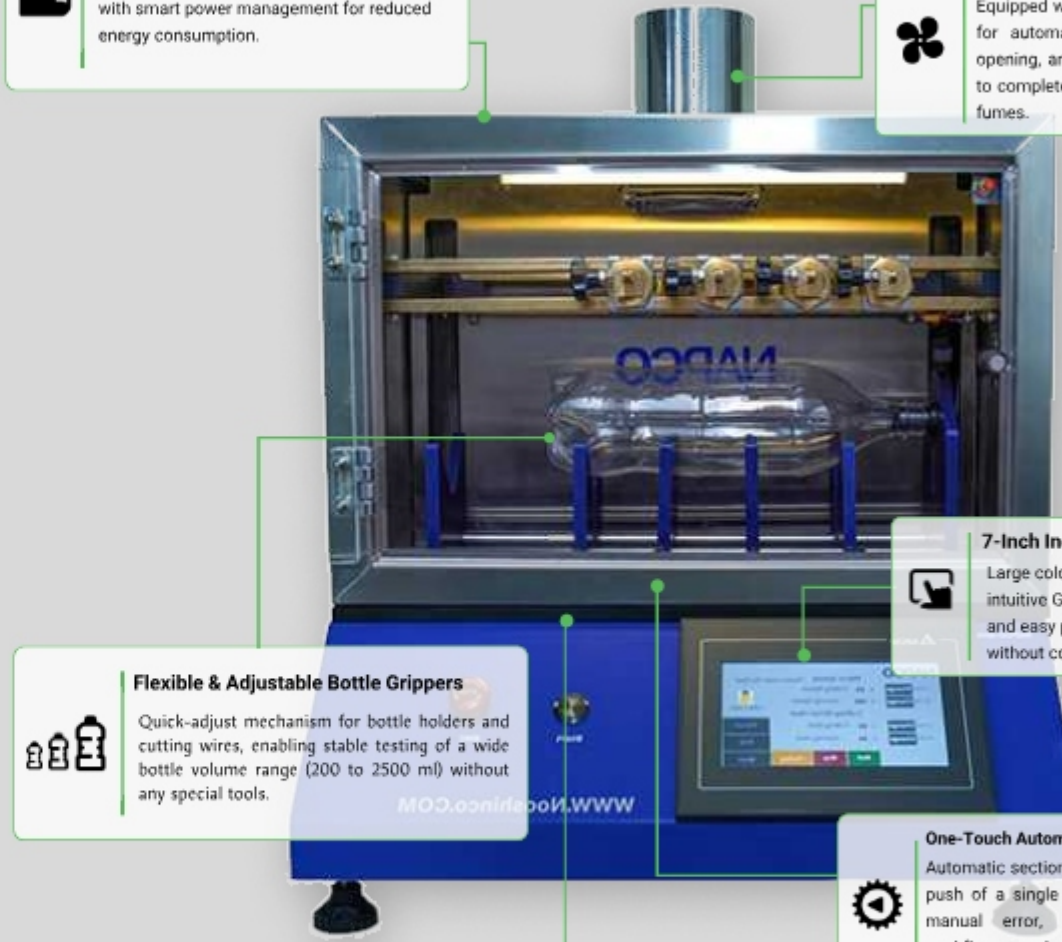
Automatic Hot Wire Cutter

An advanced, precision instrument designed for thermal cutting and accurate sectioning of PET bottles and polymer containers for Section Weight testing. This smart device uses a PLC control system and an HMI touchscreen to produce uniform, burr-free slices without applying any mechanical stress, deformation, or crushing — in a fully safe environment. The NAPCO AHWC automatic hot-wire cutter is a modern, accurate, and standards-compliant solution for upgrading quality control in laboratories and production lines.

Discover NEPCO's advanced equipment online at www.napcoqc.com



Key Features



Stainless Steel Housing & Energy Efficiency
Robust, long-lasting stainless steel construction with smart power management for reduced energy consumption.

Interlocked Safety Cabin & Exhaust Fan
Equipped with a safety door interlock for automatic motion cutoff upon opening, and a powerful exhaust fan to completely evacuate bottle-cutting fumes.

7-Inch Industrial Touchscreen
Large color touch panel with an intuitive GUI for live test monitoring and easy parameter control without complex training.

Flexible & Adjustable Bottle Grippers
Quick-adjust mechanism for bottle holders and cutting wires, enabling stable testing of a wide bottle volume range (200 to 2500 ml) without any special tools.

One-Touch Automated Cutting
Automatic section-cutting cycle at the push of a single button to eliminate manual error, significantly boost workflow speed, extend wire lifespan, and enhance test repeatability.

Precise Temperature & Cut/Return Speed Control
Full control of test variables: heating element temperature, forward cutting speed, and rapid carriage return speed — all adjustable to match container wall thickness.

Parameter	Specification
Product Code	*AHWC-100*
Max Bottle Height for Testing	450 mm (17.7 inches)
Max Bottle Diameter for Testing	120 mm (4.7 inches)
Power Supply	220V — Single phase
Dimensions (L × W × H)	530 × 500 × 570 mm
Device Weight	75 kg
Material / Housing	Anodized aluminum and stainless steel — Industrial grade
Safety Cabinet	Fully enclosed safety enclosure — Automatic locking door
Wire Tension Mechanism	Calibrated spring tension with alloy wire
Cutting Speed	Adjustable — Servo motor actuator
Number of Sections per Cycle	5 sections per bottle (4 cuts per cycle)



Report Printer

Direct device connection for instant printing of results sheets including sample details, cutting parameters, and section weights. An ideal option for quick documentation and archiving in quality control (QC) files.

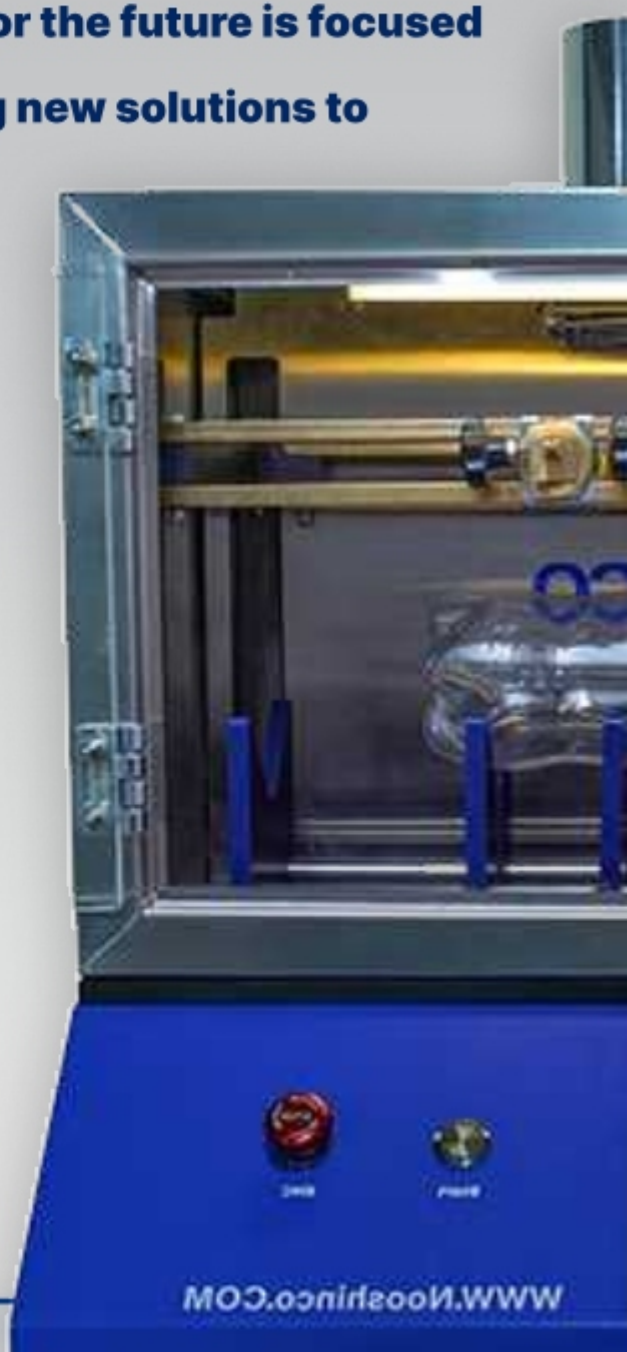


Weight Distribution Analyzer

Direct device connection for automatic, real-time recording of each cut section's weight in the test profile. Eliminates manual entry errors and significantly speeds up material distribution analysis in the quality control laboratory.



For over two decades, NAPCO has been one of the pioneers in designing and manufacturing quality control equipment and precision instruments for the packaging and beverage industries. Drawing on the technical expertise of in-house specialists and the continuous development of our engineering infrastructure, we have delivered over 40 specialized laboratory instruments to production lines. NAPCO is proud of its ongoing partnership with, and supply of equipment to, the industry's largest brands, including Khoshgovar, Pepsi, Alis, Zamzam, and Super Cola. Our outlook for the future is focused on continuous innovation and providing new solutions to advance measurement standards in industrial production.



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