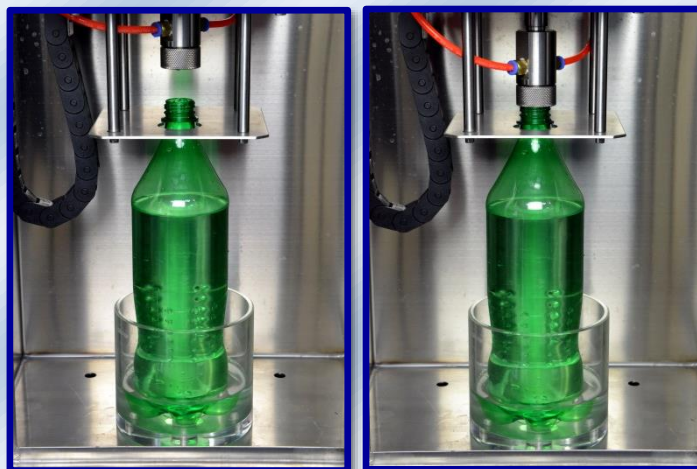


SCT-PLC Stress Crack Tester

- For test of internal stress in bottle base



Automatic water and solution filling system



User-friendly testing interface

The AT2E Stress Crack Tester is designed to test the internal stress in bottle base and for determining the stress crack resistance of blow-molded PET carbonated soft drink bottles by measuring the propensity for base cracking upon exposure to an aqueous sodium hydroxide solution under a controlled environment, so that to estimate the long term behavior of bottles.

Testing procedure ("PS" mode):

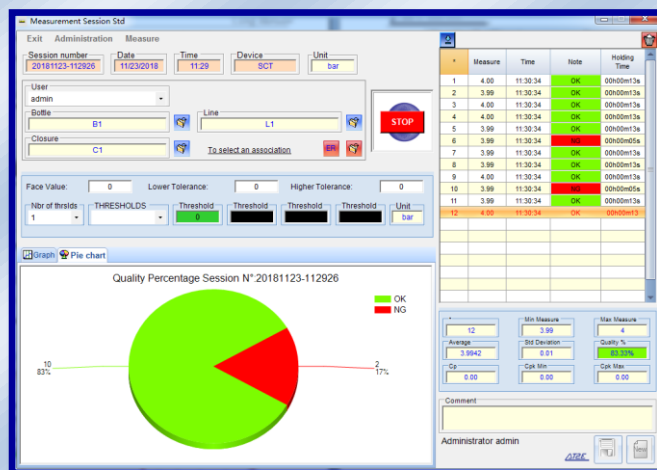
- Install and clamp the sample bottle on each position then close the door
- Affusion head will seal and fill the bottle automatically with target volume of water then pressurize the bottle to predefined pressure and stay for a target time (like 5 minutes). At same time of water filling and pressurizing, system will fill the solution into each position
- After target staying time is up, all the testing positions descend until the predefined distance and bottle base will be covered completely
- Record the time and pressure for each bottle to failure until predefined time
- Test stops after the predefined time

Attributes:

- Mult-position design, more convenient and efficient (Please consult AT2E for other position request)
- 2 test modes: "SP" & "PS" mode. "SP" mode is to auto fill the samples with water and fill the vessels with solution, then lifting units descend to the predefined distance and then pressurize the samples according to the CYCLE setting. "PS" mode is to auto fill the samples with water and fill the vessels with solution, then pressurize the sample first and hold for the preset time, then the lifting units descend to the predefined distance and keep pressuring the sample according to the CYCLE setting
- PLC control ensures the high accuracy and reliability
- High quality stainless steel frame, more safe and durable
- Flexible position selection, each position can be controlled separately by system. Users can enable the positions (from 1 to 10) according to their test request
- Automatic affusion system
- Auto pressure compensation during test process
- Suitable for testing various bottle size
- Corrosion-resistant design
- Anti-explosion and clear observation window, safe and easy to observe the sample status during tests
- Various safety design

Technical specifications:

- Testing pressure: selectable from 0 - 6 Bar (Please consult AT2E for higher pressure request)
- Display resolution: 0.01 Bar
- Pressure units: Bar / psi
- Testing time: selectable from 0 - 200 minutes (Please consult AT2E for longer testing time request)
- Sample range: 60 - 120 mm in diameter / 150 - 350 mm in height (Please consult AT2E for bigger sample)
- 7" LCD touch screen
- Recommended solution: Sodium Hydroxide (NaOH) Solution 0.200%
- Recommended operating temperature: 2 - 50 °C
- Communication port: RS232
- Air supply: 0-8 Bar (Air supply $\geq$ Max. testing pressure)
- Water supply: tap water ($\geq$ 1.5 bar)
- Power supply: AC 220V (AC 110 V optional)
- Overall size:
700(L) $\times$ 620(W) $\times$ 1835(H) mm (Single position)
3050(L) $\times$ 620(W) $\times$ 1660(H) mm (12 positions)
- Net weight: 175 kg (Single position) / 750 kg (12 positions)



"QualiCrack" Software (Optional)



Mini printer (Optional)

Optional parts:

- Mini printer
- SCT-PLC Multi-positions
- "QualiCrack" Software

Multiple positions design: