



ZDT Tester

X100 ZDT Tester

The ZDT Tester is a comprehensive digital tensile testing machine specifically designed to measure tensile strength in the Z direction. This essential tool evaluates the internal bond strength of paper and paperboard according to TAPPI T541 or ISO 15754, making it invaluable for quality assurance across various applications.

Tensile strength testing is crucial for understanding material strength and elongation capacity, ensuring that your products can withstand real-world performance demands. The Z direction testing method involves compressing a specimen between two double-sided adhesive tapes, allowing for accurate determination of maximum force at rupture and delamination.

The ZDT Tester is versatile, suitable for testing corrugating, printing, coatings, and laminates, making it ideal for multiple industries. Its advanced touchscreen technology features intuitive icons that simplify navigation, enhancing testing efficiency and accessibility regardless of language proficiency.

Features:

- 1kN frame and load cell configuration standard
- Square and Circular ZDT Clamps
- Complete software with instrument control and ZDT Analysis Software
- Rigid aluminum alloy frame with compact footprint

Options:

- Higher/lower range load cell
- Can be configured with testing fixtures for other tests

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Specifications:

- Force Capacity: 1 kN
- Accuracy: Better than $\pm 0.5\%$ of reading, down to 1/1000th of load cell capacity
- Included Load Cell: 1000N (others available)
- Included Fixtures: PBA-T54 fixture with set of 5 test blocks, 1 inch or 25mm square (other sizes available)
- Crosshead Travel: 420 mm
- Position Control Resolution: 0.0001 mm
- Throat Depth (force axis to column): 81 mm
- Minimum Speed: 0.001 mm/min
- Maximum Speed: 1000 mm/min
- Speed Accuracy: $\pm 0.1\%$ under stable conditions
- Data Acquisition Rate (at PC): 500Hz
- PC Connection: USB
- Machine Configuration: Single-column, bench-mounted
- Frame Stiffness: 5 kN/mm
- Weight: 25 kg
- Operating Temperature: $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$
- Operating Humidity: $+10$ to $+90\%$ non-condensing
- Electrical Supply: 230V, 1ph, 50/60Hz (115V option available)
- Power: 0.2 kW

Standards:

- TAPPI T541
- ISO 15754



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