

i-Strentek 1200 Auto Tensile Tester

- ❖ Online Data Management System for Packaging Testing-The ultimate cloud computing technology for test data processing and management
- ❖ Designed with embedded computer control system and intelligent operating software
- ❖ Can be used to test tensile, peeling, tearing, heat sealing and other mechanical performance of various materials
- ❖ Conforms to ASTM, ISO, JIS and other international standards



Online data management system for packaging testing

Comes with two versions to meet distinct needs of our clients:

The Cloud Version

- Consist of 6 functional modules: Test Management, Target Management, Instrument Management, File Management, Settings, and Online Support
- Cloud services: storage, calculation, and analysis of mass test data
- Automatically upload original test data to the cloud server to guarantee data security
- Intelligent statistical analysis of test results
- Easily accessible through the internet on PCs, laptops, mobile phones, and other devices anywhere and anytime, to check and review real time test results and historical test reports, as well as analytical graphs and statistical information

The Intranet Version

- Featured with storage space for vast data, correlation analysis, trend analysis, and statistical analysis of test data, as well as report printing and data export functions
- Easily accessible via computers through Intranets
- “One Click Upgrade” to the powerful “Cloud Version”

Functionality

- High test precision of 1% of full scale guarantees the accuracy of test results
- 7 independent testing programs of tensile, peeling, tearing, heat sealing and etc., are combined in one instrument
- Pneumatic specimen clamping mechanism evenly applies pressure to the specimen, effectively avoids the slippage of specimen, and ultimately ensures the accuracy of test data
- Load cells with multiple specifications, three test ranges and seven testing speeds are available for various testing conditions
- Auto return function, position limit and overload protection ensure the safety operation
- Data comparison analysis is available for users to review

Design

- Embedded computer control system provides safer and more reliable data management as well as test operation.
- The instrument can be easily operated with a mouse, a keyboard, and a monitor, without requiring a PC.
- The instrument is equipped with four USB ports and dual Internet ports for convenient data transmission.
- Sophisticated energy consumption and test environment monitoring and analysis functions for better test accuracy and reliability. (Relevant sensors are needed. For more information, please refer to the configuration in Technical Specifications.)

Software

- **Interface:** Windows-based operating interface
- **Statistics:** easy calculation for historical results, instrument usage, energy consumption, and large statistical information
- **Data Comparison:** by presetting target value and range, the system automatically generates data comparison after each test and intelligently judges whether the specimen passes or fails the test
- **Test Report:** can provide detailed test reports in various customized patterns
- **Energy Consumption and Test Status Monitoring (Additional Sensors Required):** the system monitors and displays real-time voltage, current, and energy consumption of instrument as well as ambient temperature and relative humidity during the test, which serves to evaluate test data reliability
- **User Management:** multi-level account management for better data management and protection
- **Operation Log:** system automatically records all the operations by the user, which is easy to review

Test Standards

This instrument conforms to the following standards:

ASTM E4, ASTM D882, ASTM D1938, ASTM D3330, ASTM F88, ASTM F904, ISO 37, GB 8808, GB/T 1040.1-2006, GB/T 1040.2-2006, GB/T 1040.3-2006, GB/T 1040.4-2006, GB/T 1040.5-2008, GB/T 4850-2002, GB/T 12914-2008, GB/T 17200, GB/T 16578.1-2008, GB/T 7122, GB/T 2790, GB/T 2791, GB/T 2792, GB/T

Applications

This instrument is designed for the following test items:

Basic Applications	Extended Applications (Additional Accessories Required)		
	Tensile Test	Puncture Test of Hypodermic Needles in Artificial Skin	Pullout Test of Flexible Rubber Closures
Test of Tensile Strength and Elongation Rate	Unwrapping Force of Adhesive Tapes	Tear Test Using Trouser Method	Separating Force of Protective Films
Test of Tensile Strength at Break	Puncture Test of Films	Opening Resistance Test of Combined Covers	90 Degree Peel Test of Adhesive Tapes
Tear Resistance Test	Pullout Test of Cosmetic Brush Hair	Tensile Strength of Ropes at Break	90 Degree Peel Test of Magnetic Cards
Heatseal Strength Test	Opening Force Test of Oral Liquid Caps	Pullout Test of Tooth Brush Hair	23 Degree Pullout Test of Bottle Caps
90 Degree Peel Test		Tear Resistance Test of Adhesive Binding Books	Peeling Test of Floating Rollers
180 Degree Peel Test			

Technical Specifications

Test Specs	Load Cell Capacity	100 N or 200 N or 500 N (Optional)
	Stroke	500 mm
	Test Accuracy	1% FS
	Test Speed	50 100 150 200 250 300 500 (mm/min)
	Specimen Width	30 mm (Standard Grip) 50 mm (Customized Grip)
	Clamped By	Pneumatic Control
	Environment Monitoring Specs (Optional)	Voltage Monitoring Range
Current Monitoring Range		0 ~ 15 A, with ±0.5% accuracy
Energy Analysis Accuracy		±0.5%
Environmental Temperature Monitoring Range		-10 °C ~ 55 °C, with ±0.1°C accuracy
Environmental Humidity Monitoring Range		0 ~ 100% RH, with ±2% RH accuracy
Other Specs	Instrument Dimension	450 mm (L) x 580 mm (W) x 1100 mm (H)
	Gas Supply	Air (outside of supply scope)
	Gas Supply Pressure	0.4 MPa ~ 0.6 MPa

	Power Supply	AC 110 V 60 Hz
	Net Weight	60 kg
Configurations	Standard	Mainframe (including Wireless Data Interface), Professional Software, LCD Monitor, Keyboard, Mouse, Pneumatic Clamping System
	Optional	Environment Monitoring Sensors (including voltage, current, temperature, and humidity sensors), Standard Roller, Testing Plate, Sample Cutter, Customized Grips, Printer (compatible with PCL3)
	Online Data Management System for Packaging Testing	Wireless Data Transfer Module, High Gain Antenna

Note: 1. The gas supply port of the instrument is $\Phi 4$ mm PU Tubing;
 2. Customers will need to provide gas supply.

Please Note:

- ❖ Pictures used are for illustration purposes only and may differ from the actual product received.
- ❖ Labthink International is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at www.labthink.com for the latest updates. Labthink International reserves the rights of final interpretation and revision.