

Professional

MED-01 Medical Packaging Tester is professionally applicable to the determination of force properties of various medical packaging materials, with high precision (better than 0.5% of full scale) and multiple test ranges. The instrument is designed with 16 independent test modes and bidirectional test mode of stretching and compression, which can meet various test requirements.

- Better than 0.5% of full scale effectively ensures accurate test results
- 16 independent test modes are available, including compression force, tensile strength, and peel strength of medical appliances and foams
- Professional pressure sensor monitors the internal pressure change during the test of force properties
- The system supports bidirectional test mode of stretching and compression, and 6 test speed can be freely selected based on user's requirements
- Intelligent designs of over-travel protection, overload protection, and automatic position reset for safe test operation



Intelligent

This instrument utilizes Labthink's latest embedded computer control system and operating software, with user-friendly operating interface and intelligent data management. It also supports Lystem™ Lab Data Sharing System, which ensures uniform management of test results and test reports.

- Embedded computer control system provides safer and more reliable data management as well as test operation
- The system can be easily operated by a standard monitor, a mouse and a keyboard; no PC required
- The system is equipped with four USB ports and dual internet ports for convenient input, output and data transfer
- Status monitoring and intelligent reminding of sensor calibration ensure instrument in the best working condition
- Historical data back up and management functions for diversified data analysis
- The system uses the high performance processor core and large storage space, which can conduct data comparison and analysis for 50 parallel tests at the same time
- Multi-level account control for better data management and protection
- Embedded help document for user viewing at any time
- Supports Lystem™ Lab Data Sharing System for uniform and systematic data management

Applications

This instrument is equipped with more than 100 grips for tests of more than 1000 different materials. And customization is also available for special material tests. Examples of instrument applications:

Basic Applications		Extended Applications	
Tensile Test	Puncture Test of Rubber Closures	Seal Performance Test of Hemostix	Pullout Force Test of Rubber Closures
Test of Tensile Strength and Elongation Rate	Break Test of Ampoule Bottles	Opening Force Test of Jelly Cups and Yogurt Cups	Unwinding Force Test of Adhesive Tapes
Test of Tensile Strength at Break	Sliding Resistance Test of Hypodermic Syringe	Tear Test Using Trouser Method	Peel Test of Protection Films
Tear Resistance Test	Seal Performance Test of Hypodermic Syringe	Peel Test of Release Paper	Opening Resistance Test of Combined Covers
Heatseal Strength Test	Puncture Test of Hypodermic Needle	90 Degree Peel Test of Adhesive Tapes	Puncture Test of Plastic Films
90 Degree Peel Test	Fastness Performance Test of Hypodermic Needle and Needle Hub	Tensile Stress Test of Ropes at Break	90 Degree Peel Test of Magnetic Card
180 Degree Peel Test	Fastness Performance Test of Hypodermic Needle Cap and Needle Hub	Pullout Test of Cosmetic Brush Hair	Pullout Test of Toothbrush Hair
	Compression Test of Plastic Blood Bags	23 Degree Pullout Test of Bottle Caps	Opening Force Test of Oral Liquid Caps
		Tear Resistance Test of Adhesive Binding Books	Peel Test Using Floating Rollers
		Compression and Deformation Test of Foams	

Test Principle

The pre-conditioned specimen is mounted between two grips, which move in relative direction during the test. The signals of force and displacement changes are separately recorded by the load cell fixed on the driven grip and embedded displacement transducer. The relative parameters of force properties can be obtained by further calculation.

This test instrument conforms to the following standards:

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 14232.1-2004, GB 15811-2001, GB/T 1962.1-2001, GB 2637-1995, GB 15810-2001, ASTM E4, ASTM D882, ASTM D1938, ASTM D3330, ASTM F88, ASTM F904, QB/T 2358, QB/T 1130, JIS P8113, YY 0613-2007, YBB 00042002, YBB 00112004

Technical Specifications

Specifications	MED-01
Load Cell Capacity	250 N (standard) 50 N, 100 N, 500 N (optional)
Accuracy	Better than 0.5% FS
Test Speed	Forward:10 50 100 150 200 300 mm/min (standard) Backward:10 50 100 150 200 300 mm/min (standard)
Number of Specimens	1
Specimen Width	30 mm (Standard Grip) 50 mm (Optional Grip)
Clamping Way	Manual Specimen Clamp
Stroke	600 mm
Instrument Dimension	365 mm (L) x 585 mm (W) x 960 mm (H)
Power Supply	AC 220V 50 Hz
Net Weight	68 kg

Configurations

Standard Configurations	Mainframe, Embedded Software, Standard Monitor, Mouse, Keyboard and Universal Grips
Optional Parts	Load Cell, Standard Pressure Roller, Test Plate, Sample Cutter, Floating Roller Grips, Customized Grips, Lystem™ Lab Data Sharing System, Printer (compatible with PCL3) and Other Test Accessories, e.g. Puncture Test of Rubber Closures in Antibiotic Bottles and Hypodermic Needles, Break Test of Ampoule Bottles, Seal Test of Plastic Packages under External Pressure, Connection Force Test between Hypodermic Needle and Needle Hub, Pullout Test between Hypodermic Needle and Needle Cap, Sliding Resistance Test of Pistons, Seal Test of Plastic Packages and Low Speed Unwrapping Device