

KASON-MPT500T Pharmaceutical Packaging Mechanical Performance Tester

Note: The picture is for reference only

Product Application:

The KASON-MPT500T pharmaceutical packaging performance tester is a professional instrument used to test the mechanical properties of various pharmaceutical packaging materials. Designed according to the latest pharmaceutical packaging material standards, it is mainly used for testing the heat sealing strength, tensile strength, peel strength, and elongation at break of pharmaceutical packaging materials, aluminum foil, PVC rigid sheets, composite films, syringes, and cartridge bottles; ampoule breaking force testing; aluminum-plastic combination cap opening force, puncture force, and aluminum sheet tearing force testing; and syringe sealing performance, sliding performance, and needle-to-needle connection force testing. It is a multi-functional testing instrument that combines different clamps.

Test Standards:

GB 8808,GB/T 1040.1,GB/T 1040.2,GB/T 1040.3,GB/T 1040.4,GB/T 1040.5,GB/T 4850,GB/T 12914,GB/T 17200,GB/T 16578.1,GB/T 7122,GB/T 2790, GB/T 2791,GB/T 2792,GB 14232.1,GB 15811,GB/T 1962.1,GB 2637,GB 15810,ISO 37,ASTM E4,ASTM D882,ASTM D 1938,ASTM D3330,ASTM F88,ASTM F904,QB/T 2358,QB/T 1130 ,JIS P8113,YY0613,YBB00042002,YBB00112004,etc.

Product Features:

- ★ Testing accuracy better than 0.5 grade, effectively ensuring the accuracy of test results;
- ★ One testing machine integrates multiple testing programs such as tension, compression, bending, tearing, and shearing, providing users with a variety of test options;
- ★ Equipped with professional imported tension and compression sensors from the USA, ensuring more

accurate force measurement;

- ★ The system supports both tensile and compression testing modes, with stepless speed adjustment from 0.1-500mm/min for users to choose freely;
- ★ Intelligent configurations such as limit protection, overload protection, displacement protection, deformation protection, and automatic return ensure user operational safety;
- ★ Integrated system design, using single-chip microcomputer development and control technology, allowing for standalone operation or connection to computer software control, achieving dual control via computer and standalone operation;
- ★ The system has an embedded network port or RS232 data interface for convenient external system access and data transmission;
- ★ Dynamic system status monitoring and intelligent sensor calibration reminders ensure the equipment is always in optimal operating condition;
- ★ Provides historical data backup management function, allowing querying and loading of historical tests from external storage, and enabling diverse analysis of historical test data;
- ★ The system features a high-performance processing core and large-capacity storage, capable of simultaneously accommodating multiple parallel experiments for various forms of data comparison and analysis;
- ★ Multi-level user access control facilitates standardized equipment use by laboratory administrators;
- ★ The system is available in Chinese and English versions to cater to users with different language preferences;

Technical Parameters:

Indicators	Parameters
Specifications	500 N (Standard);50 N/100 N/300 N (Optional)
	1000 N (Customizable)
Accuracy	Better than 0.5 grade
Test Speed	Initial stroke: 0.1-500 mm/min stepless adjustment (Standard)
	Return stroke: 0.1-500 mm/min stepless adjustment (Standard)
Number of samples	1 piece
Sample width	30 mm (Standard grip)
	50 mm (Optional grip)

Sample clamping	Manual (Standard grip)
	Pneumatic (Optional grip)
Stroke	350 mm (without grip)
External Dimensions	470 mm (L) × 430 mm (W) × 800 mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	38 kg

Product Configuration:

Standard Configuration: Main unit, 7-inch touchscreen controller, mini printer, universal fixture

Optional Accessories: Sensors, standard pressure rollers, test plates, sampling knives, floating roller fixtures, non-standard fixtures, computer software, desktop computer, desktop printer, and testing accessories such as: antibiotic bottle stopper puncture force testing device, medical injection needle tip puncture force testing device, ampoule breaking force testing device, soft plastic container external pressure sealing testing device, needle tip and needle seat connection force testing device, needle cap pull-out force testing device, piston sliding performance testing device, container body sealing testing device, low-speed unwinding device, etc.

Testing Principle:

The sample is clamped between two grips of the fixture. The two grips move relative to each other. Force sensors located on the moving grip and displacement sensors built into the machine collect the changes in force and displacement during the test, thereby calculating various mechanical performance indicators of the sample.

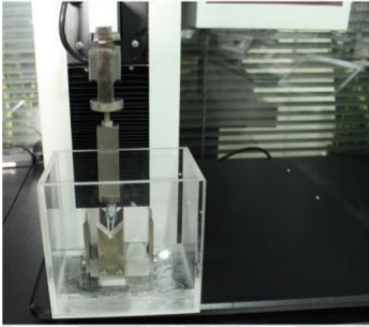
Testing Applications:

The KASON-MPT500T boasts a wide range of applications, offering over 100 different sample holders for users to choose from, meeting the testing requirements of over 1000 materials. Customization services are also available to cater to the specific testing needs of different users.

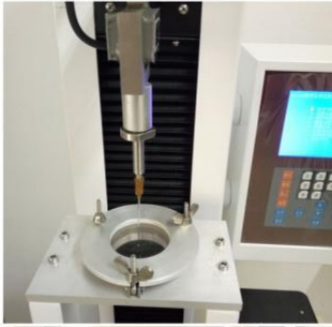
Examples of some applications:

Basic Applications		Extended applications (require special attachments or modifications)	
Tensile properties	Rubber stopper puncture force	Blood collection device sealing	Rubber stopper pull-out force
Tensive strength and deformation rate	Ampoule breaking force	Jelly cup/yogurt cup opening force	Tape unwinding force
Breaking force	Syringe sliding performance	Pants tearing force	Protective film separation force
Tear resistance	Syringe body seal	Release paper release force	Aluminum-plastic composite cap opening force
Heat seal strength	Needle puncture force	Adhesive tape 90-degree peeling force	Film puncture force
90° peel test	Needle hub-tube connection strength	Rope breaking force	90-degree magnetic card peeling force
180° peel test	Needle hub-sheath mating force	Makeup brush bristle pull force	Toothbrush bristle pull-out force
Annular initial tack	Syringe pushing force	Bottle cap pull force at a 23-degree angle	Oral liquid cap tearing force
Artificial skin puncture force	Syringe needle rigidity	Perfectly bound book page tearing force	Floating roller peeling force
Plastic blood bag pressurized emptying test		Foam compression deformation	

Ampoule breaking force



Film puncture force



Packaging pressure resistance



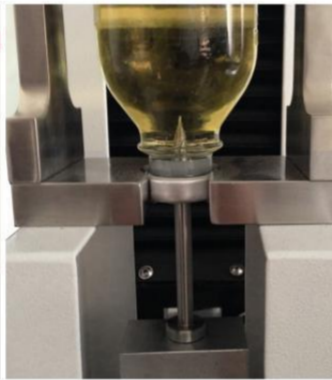
Adhesive tape peeling force



Combination cap opening force



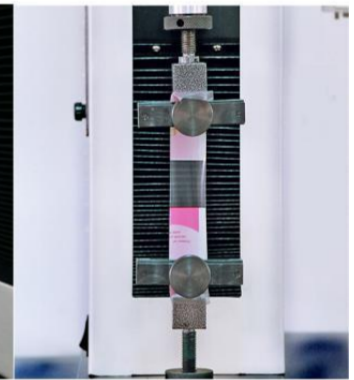
Rubber stopper puncture force



Initial circumferential adhesion



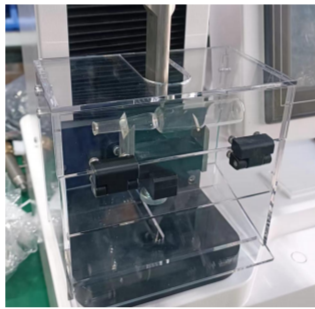
Tensile



Pull-tab opening force



Syringe pushing force



Ampoule breaking force



Cap opening force



FOCUS IN MATERIAL TEST

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