PTT-100V medical device pouch testing and inspection lab

Medical Device Pouch Testing and Inspection

Regular pouch testing and inspection remain the most effective way to reduce the risk of package failure and sterility loss. The PTT 100V brings a complete testing laboratory to your desktop, giving medical device manufacturers a powerful tool for maintaining sterile barrier integrity. CE mark available.

The Future of Medical Pouch Testing and Inspection

Van der Stähl Scientific continues to design and patent innovations that help medical device manufacturers stay compliant and avoid costly recalls. The PTT 100V is engineered to support frequent, accurate testing with quick loading grips, precision specimen cutting tools, and integrated data capture. The system outputs seal strength and inspection data through its USB port, allowing teams to archive results and build a defensible quality record. Daily pouch testing is rapidly becoming the new expectation for manufacturers who create sterile barrier systems. The PTT 100V helps you stay compliant and reduce contamination risk. Contact our engineering group to learn how this compact laboratory can support your packaging program.

High Resolution Data Capture

The PTT 100V records 100 readings per second, providing detailed insight into every peel session. Data can be transferred to a computer through the USB port to generate waveform graphics for deeper analysis and long-term archiving.

Calibration Check for Daily Confidence

The included calibration spring and Check Mode allow operators to verify load cell performance each day. This simple but essential step ensures the system remains in tolerance between annual ISO 17025 calibration cycles.

Precision Loading Tools

Human loading behavior and inconsistent specimen size can significantly affect peel test results. The PTT 100V includes a specimen cutting jig and a precision loading tool that reduce operator bias and improve repeatability. These tools encourage regular testing by making the process fast, accurate, and consistent.

Regular Testing Matters

A compromised pouch can lead to a device recall or a sterility breach. Regular seal strength testing and visual inspection are critical components of any sterile packaging plan. The PTT 100V arrives with a full ISO 17025 accredited calibration, giving you confidence from the first test. Stay compliant and reduce risk with a testing system designed specifically for medical device packaging.

PTT 100V Packaging Laboratory

Watch the video above to see how the PTT 100V can transform your quality program. This compact laboratory brings professional grade testing capability directly to your cleanroom or engineering bench.

A Complete Testing Laboratory on Your Desktop

The PTT 100V is a powerful medical device packaging laboratory designed to keep your validation program on track. The system includes a wide range of features that ensure accurate, repeatable results. The Spring Check system allows quality teams to verify load cell performance between calibration cycles. The bright display and intuitive menus encourage regular use. Quick load thin film grips require only a quarter turn to tighten, and paddle style handles improve ergonomics for operators.

Included Features

- Password protected administrative controls
- USB data output with included software
- Specimen loading tool and cutting jig
- Daily load cell calibration check
- Optimized for ASTM F88
- Quick load paddle grips

Microprocessor Managed Testing

Inside the PTT 100V is an advanced microprocessor that controls testing speed and captures peel values at 100 readings per second. The internal motherboard includes a USB data port for use with the included software. The system operates on high level firmware that includes an internal calibration mode designed to maintain long term accuracy.

ASTM F88 Test Ready

Many tensile and peel testers are not optimized for the precision required by ASTM F88. The PTT 100V was designed specifically for medical device pouch testing. With compliant speeds, stops, and capture rates, operators can load specimens into the quick load grips and gather accurate seal strength data immediately.

Machine Features That Matter

Manage the Risk of Out of Calibration Events

The daily inspection spring allows operators to verify calibration status between annual cycles. Each time your system is calibrated, we reverify your inspection spring in our ISO 17025 accredited laboratory. This prevents the risk of collecting invalid data from an out of calibration device.

Quick Load Grips

Thin film grips are fast, ergonomic, and designed for high frequency testing.

Easy Setup

Intuitive menus and paddle keys make setup simple and efficient.

Accurate Loading

The loading tool eliminates operator variability that can compromise test results.

Visual Inspection

Integrated visual inspection supports both destructive and nondestructive evaluations.

Expert Insight

"I have spent the last 32 years guiding and advising medical device manufacturing clients through the regulatory and engineering labyrinth of sterile packaging. Through data gathered from hundreds of audits I can say with great conviction that regular output seal quality testing will be your savior." **Charlie A. Webb, CPP, Six Sigma Master Black Belt, ISO 17025 Director of Quality**

A Powerful Medical Pouch Testing Laboratory for Your Cleanroom

The PTT 100V is engineered to keep your packaging validation program aligned with regulatory expectations. The bright display, simple menus, and ergonomic grips encourage frequent use. With its integrated calibration check, precision loading tools, and high resolution data capture, the PTT 100V delivers the confidence your sterile barrier system deserves.

Specifications

PEEL TENSILE TESTER	
Voltage	110V-240V
Power	9W
Weight	9kg
Machine Dimensions:	370mm x 265mm x 205mm
Operating Temperature Range	+5°C–40°C / 41°F–104°F
Operating Temperature Humidity	30%-80%RH
Computer Data Interface	USB
Maximum Peel	100N
Unit of Measure	N/kgf/vv
Sample Rate	100 points per second
Sample Increments	0.1N
Precision	+/- 0.4% of Full Scale
VISUAL INSPECTION UNIT (VIU)	
Sensor	Film Detection Sensor
LED	3 piece white LED. The LED has the brightness of 2000 to 2900mcd. When we calculate with 2500mcd x 3 each, the brightness is 535 lumens x 3 =1600 lumens. (The angle is 30 degrees)
User adjustable brightness	1. 320 lumens 2. 576 lumens 3. 864 lumens 4. 1088 lumens 5. 1600 lumens

van der stähl
SCIENTIFIC

Connecting medical device packaging to patient safety.

Call Customer Care: 800-550-3854