

Validatable Medical Sealers



# Medical Pouch & Bag Sealers

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## Medical Bag Sealing Basics

Heat sealing material for medical or sterile packaging applications requires precise control of all parameters which affect the quality and integrity of the seal. These parameters include the temperature at which the material melts; the duration of sealing time required to saturate through the material, and the amount of pressure applied to the material.

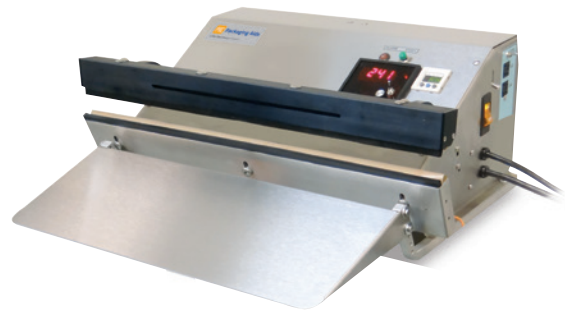
Sealing process parameters must be consistently repeatable and monitored to ensure a hermetic seal is achieved and seal integrity is maintained for sterility. Controlling and monitoring these parameters for any deviation is critical to ensuring compliance.

Compliance requires validating both the equipment and material. Equipment validation is the process of verifying accuracy of machine controls and ability to monitor acceptable tolerances. Automatic shutdown must occur in the case of any parameter deviation outside of acceptable tolerances. Validating material requires testing to determine the optimum combination of parameters required to achieve the perfect seal.

PAC Machinery control systems offer the highest level of precision and versatility in the packaging industry. Easy to navigate controls, real-time monitoring, alarm lockout, and external verification ports ensure compliance and provide ease of completing all aspects of IQ/OQ/PQ process validation. Features and controls can be configured to meet the most demanding sealing, vacuum packaging, or bagging applications. Contact one of our machinery specialists to discuss the machine that will take your packaging process to the next level.

## Packaging Aids PT Med Validatable Impulse Sealer

The PT Med is a validatable tabletop impulse heat sealer designed for the medical and life sciences industries. These versatile sealers are the perfect solution for applications requiring validatable seals, but where limited space is available or smaller production quantities are required.



## Packaging Aids Med Pac Validatable Impulse Sealer

The Med Pac is a heavy-duty, floor-standing, validatable medical impulse sealer. The high pressure seal jaws and Suretemp™ temperature controller work in unison to ensure that strong consistent seals are produced every time. The wide range of jaw lengths available make the Med Pac impulse sealer ideal for pouches of almost any size. The jaw selector switch enables the operator to choose one or both jaws to supply heat. The Med Pac can seal a wide variety of bag and pouch materials including polyethylene, laminates, foil, and Tyvek™.





## Contimed Validatable Tabletop Band Sealers

The Contimed family of tabletop, validatable medical band sealers offers a large selection of interface and control designs. The model D775 is among the most advanced medical pouch sealers available. All models feature stainless steel covers. Connectivity to external devices is achieved through 2 USB ports as well as an Ethernet connection.



**We were able to both boost production and reduce cost. The band sealer paid for itself in about three months... Absolutely incredible!**

**Mike Hoftman**  
*President*  
*Advanced Medical Innovations, Inc.*  
Northridge, CA

## 552 Med Validatable Continuous Band Sealer

The 552 Med sets the industry standard for continuous medical sealers. PAC Machinery controls allow for independently monitoring sealing speed, temperature, and sealing pressure. Individual controllers monitor parameters for any deviation and immediately lockout the entry gate and create an alarm state to ensure packaging compliance. Independent control of temperature for top and bottom jaws allow for sealing Tyvek and/or foils and laminates with the same machine. Integrated conveyor, adjustable height, and head rotation assist for ideal positioning based on handling and environment.



## 555 Med Validatable Continuous Band Sealer

The 555 Med is a continuous sealer for horizontal or vertical sealing. An optional conveyor facilitates vertical applications. The sealing head overhang will allow for positioning over existing conveyors or rollersets. Sealing head is crank adjustable for height positioning to handle short or tall pouches. Medical controls are enclosed in a locking panel to prevent operator access and unpermitted changes to validated sealing parameters. Alarm function, entry gate lockout, and external verification ports allow for medical packaging compliance and ease of IQ/OQ/PQ process.



## Vertrod OB Med Validatable Impulse Sealer

The Vertrod Medical OB (Open Back) sealer is a heavy duty impulse sealer intended for high production and/or multiple shift use. The open back construction allows for unobstructed access to the sealing jaws from the front or rear for ease of product and bag positioning and to allow for tighter packages. The OB Med is designed to comply with the stringent ISO guidelines for sterile packaging applications where control of process parameters is critical and seal validation is required.



## Vertrod PS Med Validatable Impulse Sealer

The Vertrod PS Med impulse sealer is designed for medical applications requiring heavy-duty sealing of wide materials that require seal validation. These sealers are generally used in manual packaging or fabricating applications but can also be utilized in conjunction with more automated machinery. The PS Med impulse sealer is capable of making hermetic seals with temperatures ranging from 200°F to 650°F. The welded structural steel tubular frame provides the stability necessary to make seals up to 120" long and seal widths up to 3/4 inches wide.



## PAC Machinery MedLogic Control System

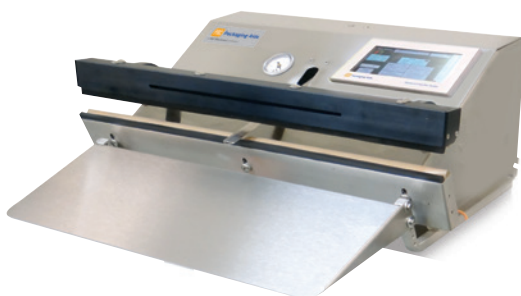
The optional MedLogic Control System provides consistent process accuracy with storage and output of all parameters for verification and back-up. Date, time, operator login, bag count, and any alarm condition is captured and stored. Alarm conditions occur when there is a deviation from validated seal settings. Real-time monitoring with shut-down and lock out functions prevent further operation. The alarm condition is identified on the controller to determine which parameter is out of tolerance. The fault is identified quickly and requires system reset before normal operation can proceed. External verification ports allow for verification and calibration for ease of IQ/OQ process. Controls are easily navigated on the 7" or optional 10" touchscreen HMI. PAC controls comply with the guidelines of ISO 11607 standards. MedLogic controls can be integrated to any machine in the PAC Machinery medical product line for the ultimate assurance of compliance with terminally sterile packaging standards globally. Data logging ensures backup of process parameters for holding up to FDA audits.





### Packaging Aids PVT Med Validatable Tabletop Vacuum Sealer

The PVT Med is a fully validatable tabletop or stand-mounted medical vacuum sealer designed to comply with ISO guidelines for terminally sterile packaging requirements. The PVT Med is a compact sealer intended for medical and other industrial applications where control of process parameters is critical and seal validation is required. PVT vacuum sealers are capable of producing quality hermetic seals in a wide range of materials with consistency and repeatability.



### Packaging Aids Med Vac Validatable Vacuum Sealer

The Med Vac sealer is a fully validatable medical vacuum sealer for sterile packaging applications. The Med Vac is a floor standing sealer with the ability to rotate the sealing head for vertical or horizontal use. Dual nozzles allow for faster evacuation or the ability to vacuum seal two pouches in a single cycle. Standard bi-active sealing jaws, with jaw selection switch, give the versatility to seal a wide range of materials with heat from one or both jaws. Optional casters make this machine portable to easily relocate packaging stations. Pac Med controls are standard for compliance and ease of IQ/OQ/PQ process.



### Packaging Aids PVK Med Vacuum Sealer

The PVK Med Validatable Vacuum Sealer is the heaviest duty model in the PAC Med line. It is available in longer seal lengths to accommodate larger packaging applications. Standard  $\frac{3}{4}$  hp vacuum pump coupled with dual high flow nozzles allows for fast evacuation of large volume packages. Higher sealing pressure capability gives the most versatility to seal almost any material. The sealing head can be rotated horizontally, vertically, or anywhere in-between. Pac Med controls allow for producing hermetic seals consistently with every cycle.



### Packaging Aids PVK Med Bag-in-Box Validatable Vacuum Sealer

This validatable vacuum sealer features a floating head to accommodate bulky or heavy products. During the vacuum cycle, the sealing head floats down to prevent the sealing jaws from supporting the weight of the product and distorting the seal. The Bag-in-Box includes large nozzles and  $\frac{3}{4}$  hp vacuum for fast evacuation. Sealing head overhang and frame design make this ideal for integration over an existing conveyor. The PAC Med control system delivers the utmost in versatility and consistency.



### VMS 163 Med Vacuum Chamber

The VMS 163 Med is a fully validatable medical vacuum chamber sealer designed to comply with ISO 11607 requirements. It is a compact tabletop chamber sealer for medical and other applications where control of process parameters is critical, seal validation is required, and the highest level and consistency of vacuum is needed.



### VM 203 Med Vacuum Chamber

Our extensive line of validatable single and double floor standing vacuum chambers are designed for higher production or large packaging applications. Single floor standing chambers will facilitate vacuum sealing multiple pouches in a single cycle and/or large, bulky packages.

### R1275 Med Validatable Bagger

The Rollbag R1275 Med is the fastest automatic bagger in its class. It is designed for multi-shift production - giving larger bagging systems a run for their money. The higher performance of this validatable automatic bagger is accomplished through smart design, a powerful PLC, and a unique stepper motor drive. Many options are available including integrated printer, feeding systems, counters and more.



### Magnum Horizontal Med Bagger

The validatable Rollbag Magnum Horizontal Med is designed to meet the unique requirements of large bag packaging with a horizontal loading configuration. The Magnum Horizontal is a compact form/fill/seal system that utilizes tubing in addition to bags on a roll. The Magnum Horizontal is ideal for long products requiring special handling or orientation. The use of tube stock can provide significant material cost savings, as well as reduced material costs.



### Magnum HS Med Pouch System

The Rollbag Magnum HS Med bagger is a validatable medical pouch sealing system for automatic packaging. This Magnum high speed sealer is designed for cleanroom use and can package products at speeds of up to 40 bags per minute using Tyvek™ Poly or medical-grade paper rollstock and up to 70 bags per minute using polyethylene tubing.

People make the difference at PAC Machinery, starting with our customer service teams. Few if any packaging equipment manufacturers offer more experience, professionalism and problem-solving skills to their customers than PAC Machinery. Our customer service and technical teams share a common vision:

Deliver a distinctive contribution to our customer's value chain, and by doing so, we can help them succeed. PAC Machinery succeeds by developing beneficial working relationships with our channel partners and by performing every aspect of our work with exceptional skill, efficiency and pride.

The PAC Machinery family of companies

Product Matrix	PAC	V	C	RS
Rollbag Baggers			■	■
Pre-Opened Bags On A Roll				■
Shrink Wrap Systems			■	
Bag Sealers	■	■	■	
Vacuum Sealers	■			
Validatable Medical Sealers	■	■	■	
Compression Sealers	■	■		
Explosion Proof Sealers	■	■		
Custom Sealing Systems		■		
Flow Wrappers	■			

 **Packaging Aids**
 **Vertrod**
 **Clamco**
 **Rollbag Systems**

# PAC Machinery

More experience. Better choices.

PAC Machinery Headquarters

Packaging Aids

Vertrod

PacMed

25 Tiburon Street

San Rafael, CA 94901

Clamco

Rollbag Systems

775 Berea Industrial Parkway

Berea, OH 44017

PAC Machinery

Bags and Materials

7737 North 81st Street

Milwaukee, WI 53223

**1 (800) 985-9570**

**[sales@pacmachinery.com](mailto:sales@pacmachinery.com)**

**[www.pacmachinery.com](http://www.pacmachinery.com)**

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