OPL Series Large Pouch Sealing Systems

Extended Length Medical Device Packaging

The OPL Series is engineered for medical device manufacturers who require long, uninterrupted sealing lengths with exceptional seal consistency. This system is available in three sealing jaw widths, 300 millimeters, 450 millimeters, and 600 millimeters standard or larger lengths available giving you the flexibility to package larger medical devices and oversized sterile barrier systems with confidence. Larger lengths are available, please ask customer service. Each model is powered by an advanced microprocessor that manages thermal and mechanical performance to deliver reliable seal to seal uniformity. CE mark is available.

OPL Series Extended Length Medical Pouch Sealer

The OPL Series uses a powerful direct drive electronic solenoid to create consistent seal force for repeatable, validated sealing. A thin film thermocouple monitors temperature directly at the sealing environment, allowing the system to maintain precise thermal control throughout the cycle. This level of accuracy supports compliance with ISO 11607 requirements and helps ensure that every pouch receives a uniform, high integrity seal.

Our medical device packaging systems are designed to be gentle on consumable parts, which helps reduce long term ownership costs. The intuitive step based menu guides operators through setup and changeovers, making the OPL Series ideal for cleanrooms that require fast, accurate adjustments between pouch sizes and materials.

Every OPL Series sealer ships from our ISO 17025 accredited calibration laboratory. This ensures that each system arrives with accurate temperature calibration for ISO 13485 medical device manufacturing environments. For more than 32 years, Van der Stähl Scientific sealers have produced billions of medical pouch seals for customers around the world.

Airless Operation for Simplified Validation

The OPL Series uses a solenoid actuated sealing bar that generates seal force through controlled electrical gating. Because the system is completely airless, there is no need to validate or monitor an external air source. Simply plug the unit into a standard power outlet and begin packaging. This design eliminates the risk of air supply variability and reduces the burden on your quality system.

Built for Long Term Reliability

Many OPL Series sealers have been in continuous service for more than three decades. These systems are built with heavy duty components and precision machined parts that support long duty cycles and high-volume production. More than one billion seals are created on OPL Series machines each year through our global network of users. Join the growing list of facilities that rely on the OPL Series for dependable sterile packaging performance.

Accredited Calibration for Compliance

Each OPL Series sealer ships with a temperature calibration performed in our ISO 17025 accredited laboratory. Multi zone thermal calibration is available for customers who require enhanced accuracy. Our optional Pro Calibration package includes certified time output and a multi zone force calibration that verifies the mechanical system's performance. These services support validation efforts and help ensure compliance with regulatory expectations.

Engineered for Large Format Medical Pouches

The OPL Series is available in three sealing lengths up to 600 millimeters standard but larger versions are available, making it ideal for orthopedic devices, surgical trays, and other large format medical products. Systems can be configured with upper and lower heating elements to seal heavy gusseted pouches or multilayer materials. The OPL Series seals a wide range of substrates including Tyvek, foil laminates, nylon, poly, and Mylar. Each unit includes an ISO 17025 accredited calibration at no additional cost.

OPL Series Medical Pouch Sealer

Your OPL Series sealer arrives fully calibrated and ready for cleanroom use. Ask about our Pro Plan, which includes accredited calibration for force, dwell time, and multi zone temperature. This package provides a strong foundation for packaging validation and ongoing process control.

Extended Length Medical Device Packaging Performance

The OPL Series creates a 10-millimeter-wide seal and can accommodate pouches up to approximately 23 inches in width or larger. Because the system does not require compressed air, seal force is delivered through a powerful solenoid that provides consistent, repeatable pressure. Operators can adjust temperature, contact time, and release temperature through the microprocessor interface. The system can be operated in a semiautomatic mode for touch free sealing or activated with a foot or table switch for greater flexibility.

Key Features

- Password protected settings
- Multi zone internal calibration
- Adjustable auto cycle mode
- Powerful solenoid driven seal force
- Airless system operation
- Available in 300, 450, and 600 millimeter sealing lengths standard or larger lengths available.

Machine Features That Matter

High Force Solenoid System

The OPL Series uses a precision direct drive solenoid that delivers consistent seal force for improved process control. The airless design requires only standard voltage and eliminates the need for external air management. By removing multiple wear parts, the system achieves longer duty cycles and reduced maintenance requirements.

Thermal Performance

Microprocessor controlled electrical gating ensures accurate platen temperature for consistent sealing results.

Easy Setup

The intuitive menu and paddle key interface make machine setup fast, accurate, and simple.

Environment Sensing

A thin film temperature sensor monitors the platen environment with high accuracy.

Extended Length Options

Three sealing lengths, 300 millimeters, 450 millimeters, and 600 millimeters standard or larger lengths available to accommodate a wide range of pouch sizes.

What Comes with Your New OPL Series Pouch Sealer

Accredited Calibration

Each system includes a no cost thermal calibration from our ISO IEC 17025 laboratory.

Certified IQ Support

Our quality system certified technicians can assist with Installation Qualification documentation.

Pouch Integrity Test

Receive a no cost ten specimen pouch integrity test from our accredited laboratory. This includes complete reporting.

Compliant Documentation

All documents and certifications originate from our ISO IEC 17025 accredited pouch test and calibration laboratory.

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**

Specifications

Voltage	AC110/220
Power Consumption	OPL-300-5: 1,100W/OPL-300-10: 1,500W OPL-450-5: 1,200W/OPL-450-10: 2,200W OPL-600-5: 1,500W/OPL-600-10: 2,700W
Sealing Dimensions	OPL-300: 5mm/10mm x 300mm OPL-450: 5mm/10mm x 450mm OPL-600: 5mm/10mm x 600mm
Sealing Method	Impulse / lower single-side heating type
Heating Temperature	140°F to 480°F (In 1°F increments)
Heating Time	0.0 - 5.0 seconds (In 0.1 second increments)
Cooling Temperature	From 100°F to the set heating temperature (In 1°F increments)
Temperature Precision	±10oF
Compatible Film Thickness	Less than 0.5mm (total thickness of the overlapping films)
Machine Dimension	OPL-300-5/10: 360mm x 580mm x 360/360mm x 590mm x 360mm (With table) OPL-450-5/10: 520mm x 510mm x 360 (With table) /520mm x 380mm x 370mm OPL-600-5/10: 680mm x 390mm x 360mm/680mm x 390mm x 370mm
Weight	OPL-300-5: 16kg/OPL-300-10: 16.5kg OPL-450-5: 15kg/OPL-450-10: 16kg OPL-600-5: 19kg/OPL-600-10: 23.5kg
Sealer Operation	By depressing the touch switch/Automatic cycling
Auto Cycle Interval	0.1 - 5.0 seconds (In 0.1 second intervals)
Platen Drive System	Electronic Solenoid

Fast Facts

- Microprocessor controlled temperature with temperature display
- Release temperature control
- Auto sealing/cooling cycles for seal-to-seal consistency
- Unsurpassed and repeatable seal integrity
- Tyvek®/clear film pouches can be sealed face upaaa
- Designed & manufactured for long duty performance
- Cleanroom-friendly design
- Safety Mechanism prevents finger/hand injuries
- Footswitch or auto interval cycling operation
- Equipped with a 10mm or 5mm wide heating element
- Silicone solenoid boot
- 4 digit password option
- Optional printer available (FEP)

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Call for speak with an application engineer or request a quote

Call Customer Care: 800-550-3854