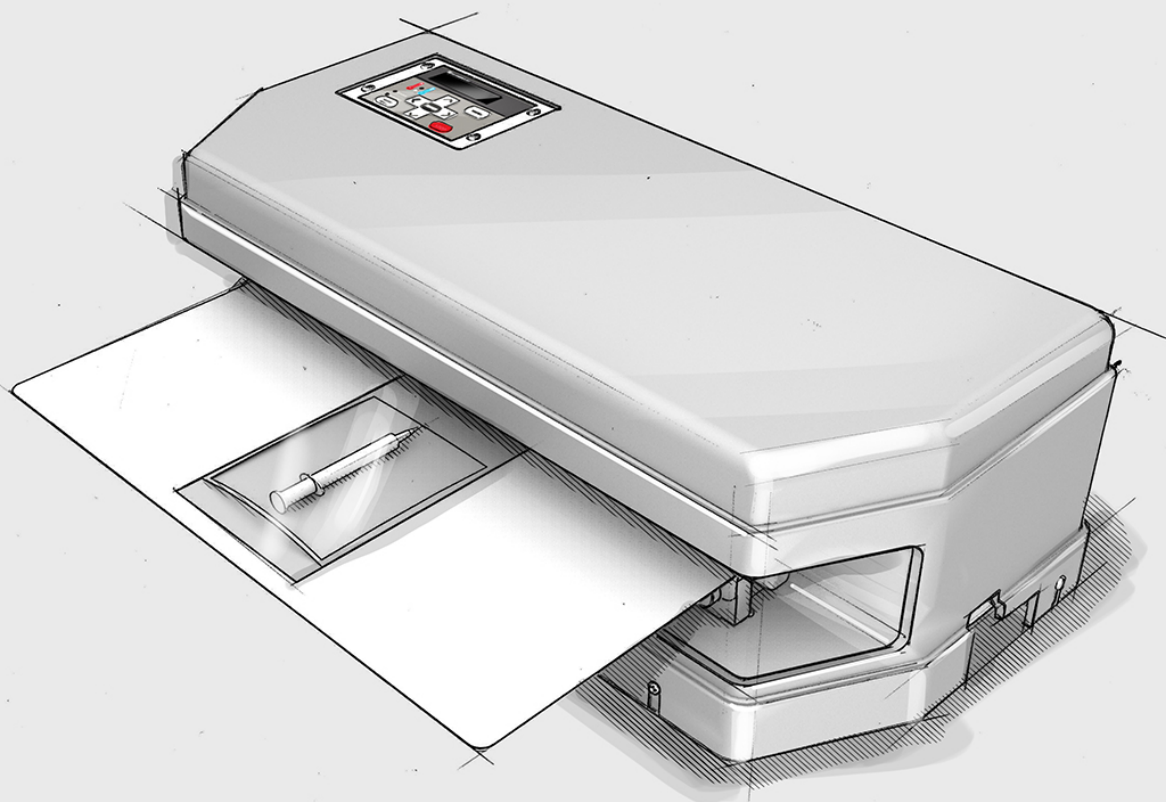


MICROCOMPUTER-CONTROLLED SEALER FOR STERILIZABLE BAGS
MEDICAL POUCH SEALER

MS 350 SPECIFICATIONS



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MS 350



ABOUT

The MS 350 medical device packaging machine creates a 10mm wide seal and can seal pouches up to approximately 13" wide. The MS 350 can seal a variety of materials such as nylon, Tyvek®, Mylar and poly. The microprocessor allows for the adjustment of contact temperature, contact time and release temperature. This sealer ships with a NIST traceable calibration from our ISO 17025 accredited laboratory. The MS 350 comes with a parts kit for general service of consumable parts as well as a comprehensive user manual.

Unlike many packaging machines in our industry, the MS 350 medical pouch sealer does not use inexpensive air valves to actuate the critical pressure at the platen. The sealer only requires a standard 110 volt service. Our custom-built solenoid is minutely controlled through the system's advanced microprocessor. Also unlike packaging machines that build their sealers on mild steel cases, the MS 350 is built on a cast-aluminum base plate designed to perform for the long haul. For this reason, the MS 350 medical pouch sealer has gained an incredible reputation in our industry.



Machine specifications

Electrical specifications		
Power ^{*1,2}	Single phase AC 110V or 220V 50/60HZ	
Power consumption	1500W/ stand by 30W	
Power cord and plug	110V: 14 AWG 3 cores 3m with type A 3 pin plug (12A 125V)	
	220V: 2CT 2 x 3 cores 3m with WF5324 plug (20A 250V)	
Power cord connection	Socket type C13	

- *NOTE**
- 1) Other voltages available on request.
 - 2) Supply voltage should be within the fluctuation range of 10% from the rated voltage.

Seal specifications	
Effective seal length ^{*1,2}	350mm (-0 to +10 mm)
Seal width ^{*3}	10mm (± 0.1 mm ^{*4})
Seal method	Impulse method upper, single-side heating
Sealable film thickness	Less than 0.3mm (total thickness of overlapping films)

- *NOTE**
- 3) Sealing width refers to the width of the heating element; it is not necessarily consistent with the dimension of the actual seal finish.
 - 4) This is the tolerance of the heating element width. It is not necessarily consistent with the dimension of the actual seal finish.

Other machine specifications		
Control method	Temperature control system regulated by microcomputer	
Driving system	Solenoid drive actuated by a touch switch	
Machine dimensions	W 520mm x D 435mm (without table 295mm) x H 215mm	
Machine weight	24kg	
Housing	Frame cover color	Light gray
	Machine base	Powder coated aluminum die-casting
	Table	Stainless steel

Microcomputer (control unit) specifications	
Keylock function	You can switch keylock function ON and OFF.
Operation patterns	Maximum 5 operation patterns can be stored in the microcomputer.
Display	LCD display (16 x 2 characters) Displays seal counter, seal parameters, etc.

Operational Specifications

Setting items	
Heating temperature setting range	From 140 to 400°F (Precision: set temperature $\pm 10^{\circ}\text{F}$)
Cooling temperature setting range	Between 100°F and the seal-heating temperature
Heating time setting range	From 0.0 to 5.0 seconds

Safety features

Operational safety features	
Overheating prevention	When overheating occurs (i.e., when power continues to be distributed to the heating element for longer than about 3 seconds), the power switch automatically shuts off to stop further heating.
Anomaly detection	Should abnormal situation arise, it will be indicated on the LCD screen on the control unit and by an alarm sound. See "4-2 Error detection and display function."
Anti-finger jamming feature ^{*5}	The pressure lever will not go down completely if a foreign object such as a finger is caught in the sealing area.

***NOTE** 5) Small fingers such as those of small children may not stop the pressure lever from coming down completely.

Error detection and display function		
NO.	MAIN CAUSE	CONDITION
ERROR 1 Microswitch ON	<ul style="list-style-type: none"> • Contact melt of the heating microswitch 	Displayed when the heating microswitch is ON even before the lever closes.
ERROR 2 Microswitch OFF	<ul style="list-style-type: none"> • Insufficient seal pressure • The bag is too thick • Improper pressure adjustment 	Displayed when the heating microswitch is turned OFF during heating, heat dwell time, or cooling.
ERROR 3 Heating time up	<ul style="list-style-type: none"> • The temp sensor is shifted. • The supply voltage is down. • The machine is cold. 	Displayed when the heating temp does not reach to the set heat temp within the ERROR 3 detection time.
ERROR 5 Poor cooling	<ul style="list-style-type: none"> • The control board is broken. • The gap is created on the temperature sensor between the levers by sealing the thick material. 	Displayed when the temperature rises about 90°F during the first 0.5 seconds of cooling process.
ERROR 6 Poor heating	<ul style="list-style-type: none"> • The heating element is broken. • The transformer secondary line is disconnected. • The temperature sensor is broken or the wire is disconnected. 	Displayed when there is no increase in the heat temp and no voltage measured with the temp sensor within the ERROR 6 detection time.
ERROR 8 Sensor error	<ul style="list-style-type: none"> • The temperature sensor wire is disconnected. 	Displayed when the measured heat temperature is too high over 626°F.
ERROR 30 Communication	<ul style="list-style-type: none"> • The noise is present • The communication wire is disconnected. 	Communication error between the control boards A and B.

Accessories

Consumable parts	<ul style="list-style-type: none">• I-heating element 350-10L• Sarcon sheet (13mm x 370mm)• Semi-transparent tape (15mm x 3m)• Glass tape (W 38mm)• Center-dry tape(40mm x 5m)	5 pcs. 1 pc. 1 roll 3 pcs. 1 roll
Accompanying paper	Operating instructions	1 pc.
Others	Phillips screwdriver Table	1 pc. 1 pc.

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