Automatic / Semi-Automatic Portable and Hands-Free Induction Foil Sealers

Smart-Seal®
Waterless Cap Sealers
And Bottle Inspection Systems

Full-featured, Field-Proven Waterless Cap Sealers Developed For Demanding Production Lines With On-Line Monitoring Systems

FEATURES:
- Self-contained easy to use — no tools... plug-in, set power level and seal
- All digital state-of-the-art designs assure accuracy and repeatability
- Eliminates antiquated analog controls  • Over 9 patents to assure consistent productivity
- No moving parts, noise free, 100% solid state surface-mount electronics for long-life and dependability
- Stainless steel cabinetry and maintenance free construction
- Seals containers of all shapes and sizes
- INSPECTS AND REJECTS DEFECTS® for quality assurance
- In stock for Fast Delivery

Your Partner in Productivity and Automation

AutoMate TECHNOLOGIES LLC
THE ORIGINATOR OF THE "WATERLESS CAP SEALER®"

34 Hinda Boulevard, Riverhead, NY 11901-4804 USA  •  Tel (631) 727-8886  •  Fax (631) 369-3903  •  www.automatech.com
AUTOMATIC WATERLESS INDUCTION FOIL SEALERS

AutoMate's Proven SMART SEAL® Waterless Cap Sealers®.
Accommodates All Your Sealing Needs
While Outperforming All Others — From the Originator of the
"Waterless Cap Sealer®"

"WATERLESS" — NO WATER COOLING REQUIRED — Eliminates radiators, pumps, fan belts, water tubing, water corrosion, spills.

Standard Stainless Steel Portable Design — Ideal for all industries including: pharmaceutical, food, chemicals, beverages, cosmetics, etc.

Ultra-Compact — Minimal space requirements. The smallest most powerful WATERLESS CAP SEALERS in the industry.

High Efficiency — Exclusive design puts the power into sealing, not into wasted heat requiring water cooling. Lower wattage required for most applications. Built-in power save mode minimizes energy consumption based on line speed and production use.

User Friendly — An all digital control panel allows operator to easily set-up and operate sealer for quick changeovers. Exclusive features such as menus, recipes, sensors and indicator lights allow for quick set-ups. No moving parts. No tools required. Remote controls available. Capable of handling most containers and caps on one machine.

Complete Line Integration — Accomplished with a built-in microcomputer at no extra cost. This allows interfacing with other in-line equipment. AutoMate offers remote control, RS-232 interface, statistical analysis retrieval, missing foil detection and rejection, skewed cap, loose cap, missing cap and stalled bottle detection, etc.

Competitive Pricing — The AutoMate sealers are priced to be well within everyone's budget. They are the most competitively priced, built to last sealers with more standard and advanced features than any other sealer available. AutoMate uses stainless steel where others use aluminum and/or plastic.

Unsurpassed Performance — Leading-edge technology and designs minimize power consumption. Over 16 years of extensive Research and Development has led to AutoMate's exclusive patented designs and features, setting AutoMate apart from other "Waterless" sealer imitations. Our Sealer Technology is protected by over 9 patents surpassing other similar machines in reliability and performance, making your production line more efficient.

Versatile — Accommodates all container materials including: PE, PP, PET, PS, PVC, Metal and Glass. Seals all cap materials, including plastic and metal.

IQ-OQ — Professionally prepared validation and documentation assistance available to suit your exact needs. (See page 4).

Hi-Tech Microprocessor — Controls and compensates sealing power—detects low power conditions/brownouts—automatically adjusts for varying loads to maintain correct sealing power. Indicator LEDs display setup and machine status. Over 23 possible faults are displayed on LED screen.

Maximum Power Output — Beware of inexpensive sealers that offer 2KW of power or less. The Model AM-250 and Model AM-500 offers more output power than any other "Waterless" sealer available today. Maximum power output enables the user versatility for difficult applications and the ability to meet future production requirements.

Self Calibration — All sealing machines containing electronics need to be calibrated. ONLY AutoMate Sealers have a built-in "STANDARD" calibration feature to verify that the sealer is performing to its maximum requirements and accuracy based on YOUR line voltage.
AutoMates Proven SMART-SEAL® Waterless Cap Sealer, Accommodates All Your Sealing Needs While Outperforming All Others — From the Originator of the “WATERLESS CAP SEALER®”

Graphic LED Display With User-Friendly, Easy To Operate Controls. Includes numerous SCREENS to easily aid the operator in setup, operation and maintenance of the AutoMate induction sealer (Some sample screens shown)

<table>
<thead>
<tr>
<th></th>
<th>AUTO-MATE Sealer Model AM-250</th>
<th>Excess Fault Limit 0015</th>
<th>Reject 2 Duration 0.2 Sec</th>
<th>Low Temp Faults 0000</th>
<th>Temp Probe Type VDC</th>
<th>Temp Probe Type VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Level</td>
<td>45% BPM=130 Batch=001823</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lot Number</td>
<td>06212003</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batch Preset</td>
<td>3500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Bottles</td>
<td>001823</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date and Time</td>
<td>03/21/06 12:04 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select recipe</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English, Spanish, French</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stall Timer</td>
<td>03.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fault Reject Setup</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select Pulse/Encoder Encoder</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Temp Value</td>
<td>125 F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Save Setting</td>
<td>20 Sec</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conveyor Speed Set</td>
<td>075.0 FPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Exclusive SMART-SEAL® load sensitive operator assist LED bar graph for easy operator set up. This unique graph meter, which operates separately from the programmed sealer, helps provide the best seal possible by indicating to the operator how much power is being used, and how much is needed depending on the cap seal and conveyor speed used.*
AUTOMATIC WATERLESS
INDUCTION FOIL CAP SEALER

Integral Cap Inspection/Rejection System For Increased Quality Control! Only AutoMate "Detects and Rejects Defects®"

Inspection System Checks For:
1. Cap presence or absence
2. Foil presence
3. Loose caps
4. Crooked caps
5. Stalled bottle/cap under sealing head
6. Low foil seal temperature (Patent pending)
7. High foil seal temperature (Patent pending)
8. Microprocessor displays and prints statistics of inspection data and faults.
9. Fully AutoMated gentle rejection system with built-in controls
10. Fault / Reject status with light/alarm

HOW THE SMART-SEAL® WORKS

Utilizing the caps pressure on the liner under the cap, the AutoMate Model AM-50, AM-75, AM-150, AM-250 and AM-500 heat the foil seal and sealing layer utilizing an electro-magnetic field through the cap. This method will heat the foil seal and also melt the optional wax layer and allow the polymer film and foil seal to be fused to the container. This will give a tamper evident hermetic seal when the cap is removed. This process is extremely efficient and fast. The electro-magnetic field produces no heat itself and therefore does not interfere with the product. Sealing rates using this process can be in excess of 40+ bottles per minute for the Semi-Automatic Sealers and 500+ bottles per minute for the Automatic Sealers.

IQ-OQ Documentation

Professionally prepared IQ/OQ (Installation/Operation Qualification) protocols presented in a detailed format suitable for all bottlers seeking easy, quick, professional validation and documentation of their cap induction sealer. (Available for all models)

Before AutoMate
- Water-Cooled Cap Sealers
- High Energy Consumption
- Low Sealing Power
- High Price Tag
- Long Delivery Time
- Pumps, Tanks, Fan Belts

AutoMate - The Originator of the Patented "Waterless Cap Sealer®"
- Low Energy Consumption
- Compact Design
- High Sealing Power (2300 Watts)
- Low Cost
- Fast Delivery
- No Pumps, Fan Belts, Water Tanks

AutoMate SMART-SEAL®, Full-Featured "Waterless Cap Sealers"
- More Sealing Power (1500 - 5000 Watts)
- More efficient, More features, More compact
- Lower price with built in cap inspection and rejection system
- User friendly
- Protected with over 9 patents and several patents pending
- Sealed / Gasketed Electronics

Present
AutoMate is the ONLY source providing Mid to High Power Automatic, and Semi-Automatic models to meet your specific production needs. Only from AutoMate comes time-saving and efficient patented features offered as standard equipment, such as Self-Calibrating Electronics for top performance.

Evolution Of Waterless Cap Sealers

1980's
Early 1990's
2003 (State-of-the-art sealers)
2005
**Semi-Automatic, Hands-Free Waterless Cap Sealer**

**SMART-SEAL® Microprocessor Controlled Models AM-50 and AM-75**

- Available as either a 500 Watt or 750 Watt model
- Lightweight, compact, quiet, portable, completely self-contained
- LED display screen with touch buttons for ease of use
- Input power supply (105-125V, 1PH or 200-240V, 1PH)
- Lockout main safety power switch
- Skid-free non-marring feet to safely operate on any work surface
- Interlocking safety switches
- Stainless steel sealed and gasketed enclosure
- Photo electric start switch—eliminates manual finger switch.
- Stainless steel "V" centering guide to positively position bottle.

**Model AM-50 and AM-75 — Check these Standard and Exclusive Hand Sealer Features:**

- Easy to use soft touch key pad with display screen shows:
  - Power level displayed in percentage of full scale
  - Sealing time in 0.1 second increments
  - Batch count and batch preset alarms
  - Displays the total number of bottles sealed
  - Operator programmed recipes and menus allow quick/easy adjustments between applications
- Screens displayed in 3 languages (English - Spanish - French)

- Standard Missing Foil Detector with audible and visual alarms (can be operator activated and deactivated)
- Touch button calibration mode to set the sealer accurately to your exact line voltage
- Sealer can operate on either 125V, 1 Phase or 200-240 V, 1 Phase (factory set)
- Has integrated interlocking guards for safety with automatic shut-off
- Main power safety switch with lock-out disconnect
- All stainless steel heavy duty construction cabinetry (not plastic as seen elsewhere)
- Compact size for easy portability
- One specially designed proprietary sealing head accommodates 5mm up to 100mm caps (no need to purchase extra sealing heads), No Sealing Head Guides or Cores to Buy
- Sealed and gasketed enclosure to protect solid state electronics from outside environment (such as dust and humidity)
- LED display screen with touch buttons for easy use (no old style thumb wheels, toggle switches or dials)
- Visual and audible signals tell when bottle is done sealing. Time counts down in 0.1 second increments on digital display
- Available as 500 watt or 750 watt model to suit your requirements
- Patented stainless steel tool-less sealing head height adjustment with incremental scale for accurate set-up and repeatability. Eliminates the need to hold the sealing head. Sealing head is automatically supported parallel to the cap seal to provide the optimum seal and eliminate operator error
- Automatic photoelectric switch under sealing head eliminates the need for finger switches and foot pedals to start sealing cycle
- Stainless steel "V" stop centering guide for positive bottle placement under sealing head
- Advanced state of the art microprocessor controlled circuitry delivers high efficiency sealing power and long term reliability. Hands free design ensures accurate fast, reliable sealing and eliminates operator fatigue

AutoMate...Your Partner In Productivity and Automation®...Page 5
SMART-SEAL® WATERLESS CAP SEALERS
Models AM-50, AM-75 and AM-150

Feature operations panel and graphic LED display with user-friendly, easy to operate controls

NEW HIGH POWER AUTOMATIC WATERLESS INDUCTION FOIL CAP SEALER Model AM-500

The Model AM-500 offers twice the power of the Model AM-250. This allows for very high conveyor speeds and extra demanding cap sealing requirements. The Model AM-500 features the same numerous specifications as the Model AM-250, but with over 5000 Watts of available sealing power. This is the most powerful "WATERLESS CAP SEALER®" on the market today. Check the Model AM-250 which has the same features and details for more information.

PORTABLE FIELD STRENGTH METER Model AM-CSM-4*

Easy to operate SMART-SEAL® Portable Field Strength Meter ensures superior quality assurance

The field strength of the Induction sealer can accurately be measured with our exclusive SMART-SEAL® Meter. This state of the art electronic Meter assists in verifying that the sealer is producing the same repeatable sealing field every time, assuring a consistent power output. The Model AM-CSM-4 Meter* also provides analytical sealing data to further assist in validation, documentation and quality assurance of your sealers performance. This Meter will work with all makes and models of induction bottle cap sealers. Ask for a quote and separate bulletin for more information.

*Patent Pending
The Diagnostic Monitoring Center comes standard with stainless steel mount to attach directly onto a conveyor requiring no floor space (Model AM-D), or with its own heavy-duty portable base (Model AM-DP).

**DIAGNOSTIC MONITORING FUNCTIONS AVAILABLE:**

- **MISSING CAP DETECTOR:** Detects the presence or absence of a cap automatically.
- **HIGH/CROOKED/LOOSE CAP DETECTOR:** Detects cross-threaded or crooked caps. Also, detects if a cap or dispenser top is not screwed down.
- **MISSING FOIL LINER DETECTOR:** Detects the presence or absence of an induction foil liner from the cap/container.
- **BOTTLE COUNTER:** Automatically counts and displays the number of containers as they pass.
- **BOTTLE RATE METER:** Automatically tracks the containers as they pass and displays real-time production rates.
- **COTTON PLACEMENT:** Detects missing cotton or high cotton placement which might interfere with proper capping.
- **BAR CODE VERIFICATION:** Detects missing or incorrect bar codes for the product being packaged.
- **MISSING LABEL DETECTOR:** Automatically detects the presence or absence of labels.
- **COLOR VERIFICATION:** Automatically detects if the cap, label, container, etc. is the correct color for the product being packaged.
- **MISSING NECK BAND DETECTOR:** Automatically verifies the presence or absence of neck bands.
- **OPEN CARTON FLAPS:** Automatically verifies that carton flaps are in place.
- **STALLED BOTTLE DETECTOR:** Internal software with external sensors, detects backup of containers downstream.
- **DEFECT COUNTERS:** Monitors the type and quantity of each fault detected to aid in determining the location and correction of the problem.
- **CUSTOM VERIFICATIONS AND DESIGNS:** Sets up to suit your specific requirements. Custom software can be written for your needs. Call for details.

**Available Formats**
The AutoMate® Diagnostic Monitoring Center can be configured to any of the following formats:
- Provide a signal to an AutoMate rejector, to reject the faulty container off your line.
- Provide a signal to the customer provided rejector, to reject the faulty container.
- Alert the operator that a faulty container has passed and/or has been rejected.
- Provide an output signal for customers further use.
- Custom software can be written for your exact requirements.

Auto-Mate's Diagnostic and Inspection Monitoring Center provides product quality assurance, accuracy and integrity. Quality control is accomplished through user friendly, non-contact, non-destructive testing. Our exclusive reject system allows defects to be automatically rejected. Quick changeovers are easily accomplished by simple knob adjustments with calibrated scales for accurate, repeatable performance.
AutoMate Technologies LLC, is your ONE SOURCE for High Performance, Reliable and Flexible Packaging and Bottling Machines including: Bottle Unscrambling, Filling, Capping, Sealing, Conveying, etc.

**Model AM-D Dimensions**

- Height Adjusting Handle: 83.3 (211.5)
- Connecting Top: 14 (36.4)
- Optional Replacer and Table: 24 (61)
- 24x71.1

**Dimensions for AM-50 and AM-75 Induction Foil Hands-Free Sealer**

- Sealing Head: 9 (22.9)
- Automatic Induction Smart Seal: 14-1/4 (36.3)
- Center Bottom of Bottle to Be Sealed: 18-1/4 (46.3)
- 16 Max. [40.6] 1-1/2 Win. [3.8]

**Dimensions for AM-150 Automatic Induction Foil SMART-SEAL Waterless Cap Sealer**

- Height Adjusting Compact: 9 (22.9)
- 15 [38.5]
- 22 [56.5]

**Dimensions for AM-250 and AM-500 Automatic Induction Foil SMART-SEAL Waterless Cap Sealer**

- Head Height Adjusting Compact: 9 (22.9)
- 45 [114.6]

**Complete Bottling Systems Available**

Contact us for more information about complete line integration.

**Typical bottling lines including:**

- Unscrambler • Filler • Capper • Inspection • Conveying • Sealing • Accumulator, etc.

**Notes:**

1. AutoMate Technologies, LLC is striving for continued leadership in the packaging industry. Therefore, dimensions and specifications are subject to change without notice.
2. *This dimension based on 34 in. (86.4cm) high conveyor and 6 in. (15.2cm) tall container. Overall height does not include optional status light.*
3. **Dimensions shown are in inches. [ ] Indicates centimeters.**

**Your Partner In Productivity and Automation®**

34 HINDA BOULEVARD, RIVERHEAD, NY 11901-4804 USA • Tel (631) 727-8886 • Fax (631) 369-3903 • www.automatech.com

© COPYRIGHT 2007 AUTO-MATE TECHNOLOGIES, LLC • US AND FOREIGN PATENTS, OTHERS PENDING • BULLETIN 0307