Continuous Bag Form, Fill and Seal Machine
SVE 2510 AB
Snacks  
Cereal  
Fresh Produce

High Performance Packaging for any Product

The Bosch SVE 2510 AB is a high performance bag form fill and seal machine, capable of speeds up to 200 packages per minute. The SVE 2510 combines the best features of Bosch’s continuous motion, servo technology with a Rockwell/Allen-Bradley based machine control system. The cost effective SVE maintains the proven Bosch film handling and sealing system featuring servo motion control for both film handling and independent jaw movement. The SVE 2510 AB is designed around a Rockwell/Allen-Bradley integrated control system for motion, I/O, and communications. Operator interface is through an industrial PC based full color touch screen. The touch screen also provides operator/maintenance access to a full suite of online machine documentation which includes schematic diagrams, machine assembly drawings and complete parts list. This results in real time support and enhanced diagnostics capabilities including remote access and flexible, seamless integration for Ethernet networks and Data Acquisitions Systems.

The packaging material is drawn-off continuously and precisely by the vacuum supported servo belt indexing system, without any friction between the belts and forming tubes. At the same time, a strong longitudinal seam with minimal overlap is formed. Synchronously with the packaging film advance, the cross seal jaw makes the top and bottom seals and the finished bag is separated and discharged.

Servo drives also electronically control the vertical and horizontal motions of the cross seal jaws. One servomotor is dedicated to the vertical movement of the cross jaw assembly. The second servomotor drives the opening and closing of the cross seal jaws. These features facilitate many different movement profiles to enhance sealing capabilities including product stripping.

The SVE 2510 AB is designed to process a wide variety of packaging films. These include heat sealable and polyethylene materials. The SVE 2510 AB readily interfaces to many different filling systems such as weighers, augers, volumetric fillers, counters and other custom designed infeed systems. Also, it is easily synchronized to downstream equipment such as conveyors, cartoners and case packers.
Material handling
• Continuous material advance at relatively low speed for maximum reliability
• Gentle material handling enables use of thinner, lower-cost packaging materials
• Improved tracking minimizes required film reel width
• Consistent, longitudinal seam quality means fewer rejects

Flexibility
• Packages free flowing, particulate and powder food products, such as confectionery, baked products, cereals, snacks, luxury consumables, dried fruit, and IQF frozen food and vegetables

Lower operating costs
• Off the shelf Allen-Bradley control components
• No lubrication in standard configuration
• Low maintenance and service
• High efficiency in all applications
• Modular engineering for easy component replacement

Operator-friendly design
• Low overall height
• Wide-opening double doors
• Easily accessible interior
• Process monitoring and data-input validity checking
• Fast, easy one-part size change
• Quick change jaws and knife available

Easy programming
• Servo technology permits program change with the touch of a button
• 100 program memory
• Bag types: pillow/side-gusseted/block-bottom

Other standard features
• Open frame design for excellent accessibility
• Extensive use of stainless steel and other non corrosive materials for use in a wide variety of plant environments
• State of the art servo technology for material transport and cross seal jaw motions
• Vacuum material transport system
• Vacuum supported splicing table
• Photo-Eye for print-registered film

Options
• Quick change knife and jaw sets
• Automatic web tracking
• Reel support for 2 packaging material reels
• Gussetting device
• Integration of a wide variety of code daters and printers
• Variety of hole punch options (full, partial, "Euro")
• Tear notch for easy bag opening
• Gas flush options for MAP with auto shut off
• Variety of bag discharge chutes and flipping devices
• Optical sensor for automatic control of web tracking
• Harsh environment configuration including NEMA 4X electrical design
• Filling tube dust extraction
• Forming set with integral shut off for product staging or clean product cut off
• PHS (poly-heat seal) system for weldable materials (i.e., LPDE)
• Heated film splice bar

State of the art, Allen-Bradley intuitive machine interface
Complete operator’s manual on machine interface with errors hot-linked to troubleshooting
Parts manual on machine interface including detailed assembly drawings for parts identification
## Specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat Bag Width</td>
<td>(60mm - 250mm) 2-1/3 - 10 inches</td>
</tr>
<tr>
<td>Stand Up Bag Width</td>
<td>(40mm - 220mm) 1-1/2 - 9 inches</td>
</tr>
<tr>
<td>Stand Up Bag Depth</td>
<td>(25mm - 105mm) 1 - 4 inches</td>
</tr>
<tr>
<td>Flat Bag Width + Depth</td>
<td>(250mm maximum) 10 inches</td>
</tr>
<tr>
<td>Bag Length</td>
<td>(75mm - 500mm) 3 - 20 inches</td>
</tr>
<tr>
<td>Machine Speed*</td>
<td>Up to 200 bpm</td>
</tr>
<tr>
<td>Packaging Material Width</td>
<td>(540mm maximum) 21 inches</td>
</tr>
<tr>
<td>Packaging Material Diameter</td>
<td>(650mm maximum) 26 inches</td>
</tr>
<tr>
<td>Packaging Material Core ID</td>
<td>(75mm) 3 inches</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>3 phase 208-575 V</td>
</tr>
<tr>
<td></td>
<td>1 phase 208-240 V optional</td>
</tr>
<tr>
<td></td>
<td>10 KVA max (varies with film type and speed)</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>3.8 CFM @ 75 PSI for PE</td>
</tr>
<tr>
<td></td>
<td>.38 CFM @ 75 PSI for HS</td>
</tr>
<tr>
<td></td>
<td>3/4 inch infeed minimum</td>
</tr>
<tr>
<td>Machine Control</td>
<td>Allen-Bradley RS Logix 5000™ series</td>
</tr>
<tr>
<td>Drives</td>
<td>Allen-Bradley Ultra 3000, SERCOS</td>
</tr>
<tr>
<td>Servo Motors</td>
<td>Allen-Bradley MPL™ Series</td>
</tr>
<tr>
<td>HMI</td>
<td>Windows XP™ based 15” touchscreen</td>
</tr>
<tr>
<td></td>
<td>Screens developed in Wonderware™</td>
</tr>
<tr>
<td></td>
<td>Allen-Bradley RSview™ optional</td>
</tr>
<tr>
<td>Pneumatics</td>
<td>Operated via field bus</td>
</tr>
<tr>
<td>Proximity Switches</td>
<td>Connected on field bus</td>
</tr>
</tbody>
</table>

Illustrations and specifications contained in this brochure are for general information only. All dimensions and specifications are subject to change without notice.

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