OYSTAR North America
The Process & Packaging Group

# TAMPER-EVIDENT LIDDING SYSTEMS

- HSC-Rotary Intermittent Conduction Sealer
- CBS-In-Line Intermittent Conduction Sealer
- CCS-Continuous Conduction Sealer
- MAP-Modified Atmosphere Packaging

## COST-EFFECTIVE AND PROVEN

The widely recognized Autoprod & Holmatic systems from OYSTAR North America offer superior design and manufacturing of linear filling, sealing and lidding systems, tamper-evident conduction sealing, lid applicators and piston product fillers. These systems efficiently fill, lid, overcap and discharge a broad spectrum of containers at costs that give you an important competitive edge.

These cost-effective alternatives for the application of tamper-evident membranes are available with output configurations ranging from 50 to more than 500 containers per minute.

Our commitment to customers' needs is relied upon by many of the most recognized names in the processed foods, dairy, bakery, pharmaceutical and cosmetics industries.

### Linear CBS Series

OYSTAR North America designs and builds single station and twin station models of its robust, high speed and industry proven CBS Series in-line conduction sealing systems

Model CBS-36

### Rotary HSC Series

The HSC Series offers three models of rotary conduction heat sealers that are fully automatic, accurate and built to last

Model HSC

Model CCS

### Continuous Motion CCS Series

The CCS Series is designed to handle containers smoothly with no abrupt changes in velocity of the containers or seal.

**Processed Foods**

- Jams, jellies, peanut butter, mayonnaise, spices, condiments, soups, dried soups, oatmeal, salad dressings, sauces, salsa, sandwich spreads, hot and cold fills, powdered drinks, juices, still water, home meal replacements, pet snacks and food

**Bakery, Snack and Drink Products**

- Cake batters, fruit pie fillings, fruit toppings, whipped toppings, bread crumbs, stuffing, extruded snacks, potato chips, powdered and granulated beverages: coffee, cocoa

**Pharmaceuticals and Cosmetics**

- Powdered nutritional supplies, liquid supplement drinks, hair gels and shampoos, skin creams, air fresheners, baby wipes

**Industrial Products**

- Hand cleaner, lotions, greases, oils, ink cartridges

## CONDUCTION SEALING AND CAPLESS INDUCTION SEALING

OYSTAR North America integrates positive pre-filled container infeed with precise transport, positioning and sealing support. OYSTAR North America conduction sealing systems are capable of hermetically sealing a wide variety of paper, film or foil roll stock materials. The new capless induction sealing technology provides opportunities for efficiency gains, clean production, and a strong visual appearance of the product.

**Conduction Sealing benefits include:**

- Non-round container sealing is our specialty
- Long-term cost savings; sealing technology for paper, film, or foil roll stock materials
- No reduction in cap torque after seal; no cap re-torquer required
- Substantial savings are possible by eliminating pulp and foil cap liners
- Pull tabs available at no additional cost from unused portion of reel
- System forgiving of seal surface irregularities
- Seals with thinner, less expensive films or foils
- No overheating of seal
- No burned smell in container headspace
- Enhanced peeling capabilities due to superior control of seal parameters
- Seal independent of cap torque, missing liners or cocked caps
- Seal is placed prior to lidding allowing visual inspection of seal integrity
- Die cut technology provides maximum utilization of film web, outperforming the competition

The HSC can be used with both conduction or induction sealing

The CBS can be used with both conduction or induction sealing

**Capless Induction Sealing benefits include:**

- Non-round container sealing is our specialty
- Reduces cap and liner cost
- Provides greater control over sealing process
- Allows immediate inspection of sealed container
- Rubber insert in sealing head delivers better compliance with uneven sealing surfaces
- Mechanically applied sealing pressure is reliable and measurable
- Foil can be subject to inspection processes after application
- Highly efficient, only the foil seal is heated during the sealing process
- Precise digital control over energy input to head
- Instant start-up and shut down for optimum availability
- Electromagnetic heating within foil, no heat lost into environment
- Real time digital control over induction power level (temperature)

## FULLY INTEGRATED MAP SYSTEMS

Modified Atmosphere Packaging (MAP) is the process of changing the environment surrounding sensitive products to promote extended shelf life, enhance quality retention, expand distribution capabilities and minimize damage of perishable products.

Although MAP has been used for nearly half a century, demand increased dramatically during the 1990s as consumers called for more natural, minimally processed food products. OYSTAR North America is meeting this challenge by delivering innovative technologies that simplify the MAP process and provide exceptional output and performance.

The patented, fully integrated vacuumless dual laminar flow systems offered by OYSTAR North America Homlatic do not contact or touch packages or containers nor do they operate with complex mechanical systems, vacuum pumps or moving parts. MAP supplies gas where needed, as needed, to minimize gas consumption while providing quick start operation.

**Integrated in-line MAP**

**Patented, vacuumless dual laminar flow MAP technology**

**Complete in-line MAP system model CBS-18**

### Benefits of MAP (Modified Atmosphere Packaging)

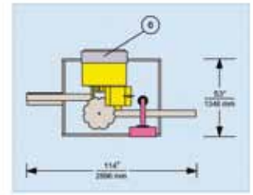
- Extend shelf life
- Maintain product quality
- Retain natural color
- Inhibit microbial growth
- Lower product return
- Reduce handling
- Decrease shrink
- Extend distribution area
- Line design/integration
- Single source supplier

## HSC SERIES COMPACT ROTARY SEALING SYSTEMS

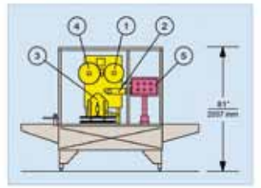
The HSC Series offers a compact and fully automatic rotary conduction sealing system. Its heavy-duty roller cam indexer provides precision positioning of the container for reliable sealing. With output speeds ranging from 50 to 100 containers per minute, the versatility of the HSC Series is suited for a wide range of container sizes, shapes and materials.

**Model HSC**

### General Layout



**Model HSC overhead view**



**Front view**

1. Film Unwind
2. Die Cutter
3. Heat Sealer
4. Film Rewind
5. Control Panel
6. Electrical Cabinet

**Technical Specifications**

| | HSC |
|---|---|
| Maximum Mechnical Output* | 1-100/0-6,000 |
| Maximum Container Diameter | 20-178 mm/0.8-7.0 in. |
| Maximum Container Size (Rect./Sq.) | 20-165 mm/0.8-6.5 in. |
| Maximum Container Height | 203 mm/8.0 in. |

***Maximum Mechanical Output - Containers per minute/hour**
**Specifications - These specifications denote standard designs; alternate configurations and capacities are available.**
**Performance - Mechanical output will vary and will depend upon the container characteristics, sealing material and dwell time required to effect a satisfactory seal.**
**Power Supply/Compressed Air - To be determined upon final configuration of each system.**

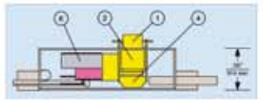
| Standard Features | Available Options |
|---|---|
| No Container/no seal feature | Full diameter changeovers |
| Precision mechanical indexing | Film registration |
| Quick height adjustment for common diameters | Automatic central lubrication |
| Allen Bradley PLC controlled for simplicity and reliability | Patented, vacuumless, full integrated MAP systems |
| Set-up for one container diameter | Induction head(s) for foil sealing |
| Conveyor heights adjusted to fit your line | |
| Full perimeter guarding | |

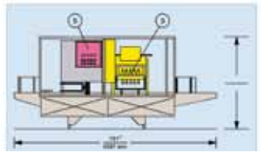
## CBS SERIES IN-LINE CONDUCTION SEALING SYSTEMS

The durable CBS Series is a proven industry leader for in-line conduction sealing systems. Choose from the CBS-18 with one sealing station or the CBS-36 with twin sealing stations. The CBS-46 offers maximum flexibility with twin sealing stations for larger containers or higher outputs for small containers including servo film delivery and drive system providing better control.

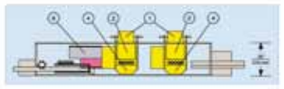
Complete In-Line MAP System
Model CBS-46

### General Layout





Model CBS-18



Model CBS-36

1. Film Unwind
2. Die Cutter
3. Heat Sealer
4. Film Rewind
5. Control Panel
6. Electrical Cabinet

| Standard Features | Available Options |
|---|---|
| No container/no seal feature | Infeed variations include timing screw, star wheel, side transfer and direct based on container configuration |
| Quick height adjustment for common diameters | Full diameter changeovers |
| Allen Bradley PLC controlled for simplicity and reliability | Film registration |
| Set-up for one container diameter | Automatic central lubrication |
| Conveyor heights adjusted to fit your line | Patented, vacuumless, fully integrated MAP systems |
| Full perimeter guarding | Induction head(s) for foil sealing |

**Technical Specifications**

| | CBS-18 | CBS-36 | CBS-46 |
|---|---|---|---|
| Maximum Mechanical Output* | 120-320/7,200-19,200 | 180-480/10,800-28,800 | 100-500/6,000-30,000 |
| Sealing Heads Per Index | 3-8 | 6-16 | 4-20 |
| Maximum Container Diameter | 38-127 mm/1.5-5.5 in. | 38-127 mm/1.5-5.0 in. | 51-178 mm/2.0-7.0 in. |
| Maximum Container Size (Rect./Sq.) | 38-114 mm/1.5-4.5 in. | 38-114 mm/1.5-4.5 in. | 51-178 mm/2.0-7.0 in. |
| Container Height | 76-203 mm/3.0-12.0 in. | 76-203 mm/3.0-8.0 in. | 101-254 mm/4.0-10.0 in. |

*Maximum Mechanical Output - Containers per minute/hour
Specifications - These specifications denote standard designs; alternate configurations and capacities are available.
Performance - Mechanical output will vary and will depend upon the container characteristics, sealing material and dwell time required to effect a satisfactory seal.
Power Supply/Compressed Air - To be determined upon final configuration of each system.

## CCS SERIES IN-LINE CONTINUOUS MOTION SEALING SYSTEMS

The CCS, Continuous Conduction Sealer, has many capabilities and functions. It has the option of including a modified atmosphere system (MAP) capable of maintaining O2 levels to < 2% at time of sealing. With a seal time of 1.5 seconds at 300 containers per minute, the CCS is designed to handle containers smoothly with no abrupt changes in velocity of the containers or seal.

The CCS also has on "the fly film" splicing for continuous operation and is capable of maintaining a precise relationship between the seal cutout, the heat seal adapter, and the container. The Continuous Conduction Sealer has the option of registering printed film to the container.

Containers are sealed in a continuous motion

Model CCS

| Standard Features | Available Options |
|---|---|
| No container/no seal feature | Full diameter changeovers |
| Continuous product flow | Film registration |
| Automated height adjustment for common diameters | Film web chopper and collection system |
| Allen Bradley PLC controlled for simplicity and reliability | Patented, vacuumless, fully integrated MAP systems |
| Automatic central lubrication | Induction head(s) for foil sealing |

**Technical Specifications**

| | CCS 300 | CCS 375 | CCS 450 | CCS 525 | CCS 600 | CCS 675 | CCS 750 |
|---|---|---|---|---|---|---|---|
| Container Pitch (inches) | 3.00 | 3.75 | 4.50 | 5.25 | 6.00 | 6.75 | 7.50 |
| Maximum Mechanical Output* | 750 | 600 | 500 | 430 | 375 | 330 | 300 |
| Minimum Mechanical Output | 188 | 150 | 125 | 108 | 94 | 83 | 75 |
| Maximum Container/Seal size, dia. or length (inches) | 2.50 | 3.25 | 4.00 | 4.75 | 5.50 | 6.25 | 7.00 |
| Minimum Container/Seal size, dia. or length (inches) | 1.75 | 2.50 | 3.25 | 4.00 | 4.75 | 5.50 | 6.25 |
| Maximum Container Height (inches) | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| Minimum Container Height (inches) | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |

*Maximum Mechanical Output - Containers per minute/hour
Specifications - These specifications denote standard designs; alternate configurations and capacities are available.
Performance - Mechanical output will vary and will depend upon the container characteristics, sealing material and dwell time required to effect a satisfactory seal.
Power Supply/Compressed Air - To be determined upon final configuration of each system.

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