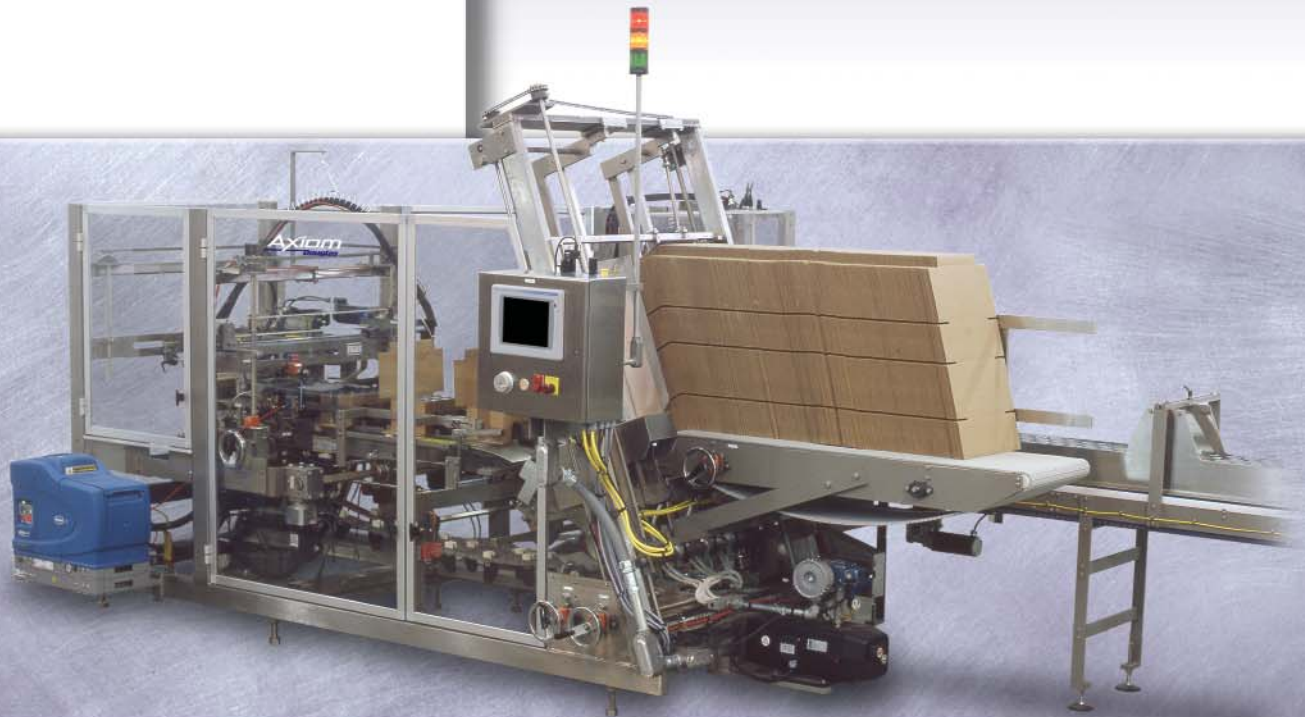




# Axiom™ series CASE/TRAY PACKERS

Put maximum speed and flexibility to work for you with the Axiom™ Series Intermittent Motion Servo Case/Tray Packer. Servo functions reliably and accurately pack cartons, bottles, cans, jars, and flexible packages 50 percent faster than mechanical functions. Innovative infeed technology delivers unprecedented flexibility to adapt to changing market demands.



**AGILITY**-----

**Maximum Flexibility:** Our modular design platform allows you to adapt to evolving and uncertain product life cycles with minimum investment. Accommodating a new product only requires simple programming and/or component changes rather than extensive retooling.

**SPEED**-----

**Ultimate High-Speed Performance:** High speeds up to 45 cases/trays per minute are 50 percent faster than typical mechanical case/tray packers.

**ACCURACY**-----

**Repeatable Changeovers:** Servo functions minimize downtime by ensuring repeatable changeovers.

**EFFICIENCY**-----

**Simple Recovery:** Simple fault detection and recovery assures quick operator and machine response in the unlikely event of a jam or malfunction.

**Increased Uptime:** Forty-five percent fewer parts add up to less maintenance, less replacement parts, less spilled product build-up, and reduced sanitation time. This increases uptime and decreases operating costs.

**Efficient Product Handling:** New patent-pending infeed, metering, and accumulation solutions move product gently and efficiently, dramatically reducing scarring and damage.

**Small Footprint:** Innovative, compact design saves 15 to 30 percent in valuable floor space (product and infeed design dependent).

**Sanitary Frame Construction:** Stainless steel frame construction adds longevity and corrosion resistance, while minimizing main frame flexing under operating loads.





Flexible infeeds easily adapt to your product.



#### FLEXIBLE INFEEDS:

A wide variety of infeed solutions easily adapt our Axiom™ Series servo case and tray packers to your product. Some of the more commonly used systems include:

**Smartrak™ Steady Stream Infeed System:** With simple and reliable performance, the new Smartrak™ Steady Stream Infeed System far surpasses other product infeeds. Our patent-pending design eliminates soft bottle bridging and removes the gaps that compromise pack pattern accuracy and continuous product flow. Distinguishing features include solid adjustment cross-members, rigid lane guides and cam style adjustment clamps for stable operation and quick changeovers.

**Wedge Infeed:** Ideal for round products in high-speed applications. The unique funnel design creates high volumes of product throughput, resulting in fewer jams and less damaged product.

**Recirculating Conveyor:** Ideally suited for easily damaged non-carbonated or soft bottles. A strategically placed photoeye controls product flow and monitors product population in the infeed. By controlling product population, line pressure is reduced. This results in less damaged product.

**Servo or Mechanical Lane Dividers:** Perfect for applications where products cannot be flood or mass fed, our lane dividers handle virtually any product shape or size. A fixed number of products are smoothly fed to metering systems, where balanced product lanes are required.



Efficient product metering and accumulation ensure products are gently handled at a variety of speeds.



#### EFFICIENT PRODUCT METERING/ACCUMULATION:

New patent-pending and industry-proven product metering and accumulation techniques ensure reduced surge pressure, stable product handling, and minimal product damage.

**Pinless Metering:** Our revolutionary patented pinless metering utilizes new technology and servo drives to gently meter bottled, cartoned, canned, and jarred products into appropriate pack patterns. Minimal surge pressure and stabilized product handling results in speeds 50% faster than traditional metering concepts. Tool-free changeovers are accomplished with simple adjustments and intuitive steps through the control panel.

**Velocity™ High Speed Stacker:** Sixty percent faster than traditional stacker designs, the patent-pending Velocity™ all servo stacker provides continuous product flow to 600 products per minute. Tool-free changeovers are accomplished with simple adjustments and intuitive steps through the control panel.

**Continuous Piling Concept:** A convenient carton accumulation solution where quick carton stacking and frequent size changes are required. Easily adapts itself to a "smart infeed," which automatically shifts from single to multiple lane feeding.

**Reverse Continuous Piling Concept:** Ideal for pouch applications, the reverse continuous piling concept handles a variety of pouches at low to high speeds.

**Progressive Tier Stacker:** An economical solution for low speed carton production, the progressive tier stacker lends itself to applications requiring a wide variety of carton pack patterns.

**Pin Metering:** An economical solution for cans or glass and plastic bottle applications at low to medium speeds. Easy-to-understand mechanical functions ensure simple operations.

### ERGONOMIC MAGAZINES:

Flexible magazine designs easily adapt to your wraparound or pre-glued regular slotted case (RSC) style case blank, or tray blank.

**Angled Setup (ASU):** The flexible ASU magazine easily adapts to your case or tray blank. Overhead lifting of blanks is eliminated, satisfying the need for ergonomic sensitivity. The ASU magazine also reduces the length of travel from the magazine to the flights, contributing to increased machine speed.

**Opposing Vacuum:** Ideal for pre-glued RSC style case blanks. The opposing vacuum feature consistently opens the pre-glued case blanks and ensures accurate blank placement in the flights.



Flexible designs for wraparound, pre-glued RSC, or tray blanks.

### INNOVATIVE PRODUCT LOADING:

Product loading is accomplished using a variety of techniques. Some of the more commonly used techniques include:

**Servo Driven Cross-Push:** Our most recent design, the servo driven cross-push loader, lends itself to high-speed applications where product loading requires a gentle approach and a wide variety of pack patterns.

**Raise on Return Loading:** This high-speed loading technique starts to accumulate product for the next pack pattern as soon as the loader clears the accumulation section.

**Pick and Place:** Ideal for products such as tapered cups that cannot be pushed one against the other. We utilize a variety of vacuum or mechanical techniques, depending on the application.



Innovative product loading techniques efficiently load a variety of products and pack patterns.

### CONSISTENT CASE COMPRESSION:

Consistent case or tray compression is ensured using live side guide compression.

**Live Tray Compression:** This type of compression covers the entire height of the tray for even contact over the entire flap, providing for proper adhesive compression on every flap.

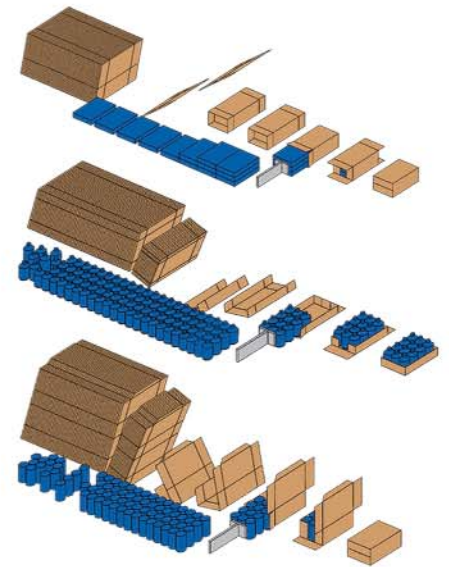
**Live Case Compression:** Four-sided squaring is applied to the full case prior to final compression. This ensures consistently square cases. Live compression covers the entire height and top of the case for even flap contact, providing a secure package and proper adhesive compression on every flap.



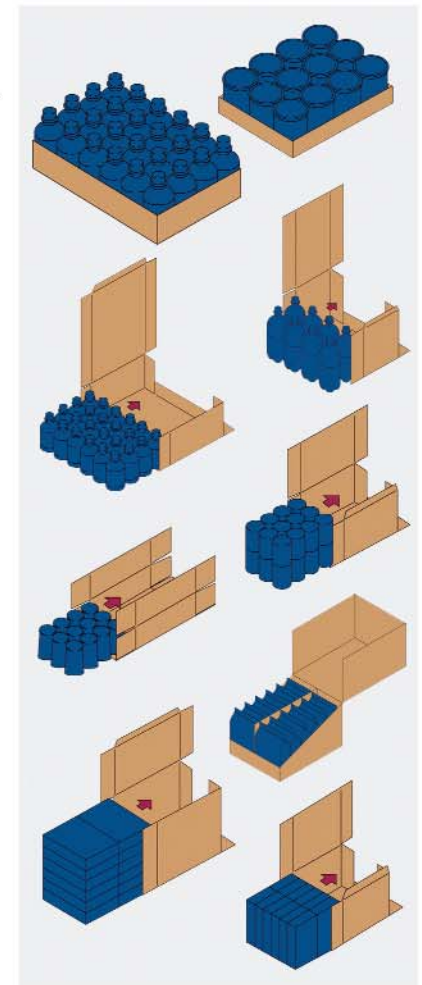
Consistent case or tray compression.

## SPECIFICATIONS:

- DRIVE:** Servo drive motors.
- PITCH:** Application dependent.
- FLIGHT CHAINS:** Application dependent.
- SPEED:** Up to 45 cases/trays per minute (product and pack pattern dependent).
- PRODUCT SIZE RANGE:** Per project specification.
- PACKAGE SIZE RANGE:** Per project specification.
- MAGAZINE CAPACITY:** 6 ft. (1.82 m.).
- FRAME:** Stainless steel.
- ADJUSTMENTS:** Threaded screws, handwheels and handknobs with position pointers and scales. Digital scales, phase adjustments and tool-free packages (optional).
- SETUP:** Positive placement setup with vacuum.
- GLUE SYSTEM:** NORDSON series or per project specification.
- FLAP CLOSING AND COMPRESSION:** Servo motions.
- GUARDING:** Full length polycarbonate with extruded anodized aluminum frames. Other guard packages per project specification.
- ELECTRICAL:** Allen Bradley series programmable logic controller or per project specification.  
Allen Bradley Panelview.  
NEMA 12 wiring and enclosures.  
NEMA 4 or 4X wiring and enclosures (optional).
- FINISH:** Stainless steel frame. Some parts are gray metallic epoxy powder coat. Other colors per project specification. All parts in contact with product are stainless steel and plastic. OEM parts are manufacturers' standard finish.
- INSTALLATION REQUIREMENTS:** Power: One drop 230/480 VAC, 50/60Hz, 3PH.  
Other power sources available.  
Air: One drop 90 PSI (6.2 bar).



Typical Pack Patterns



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