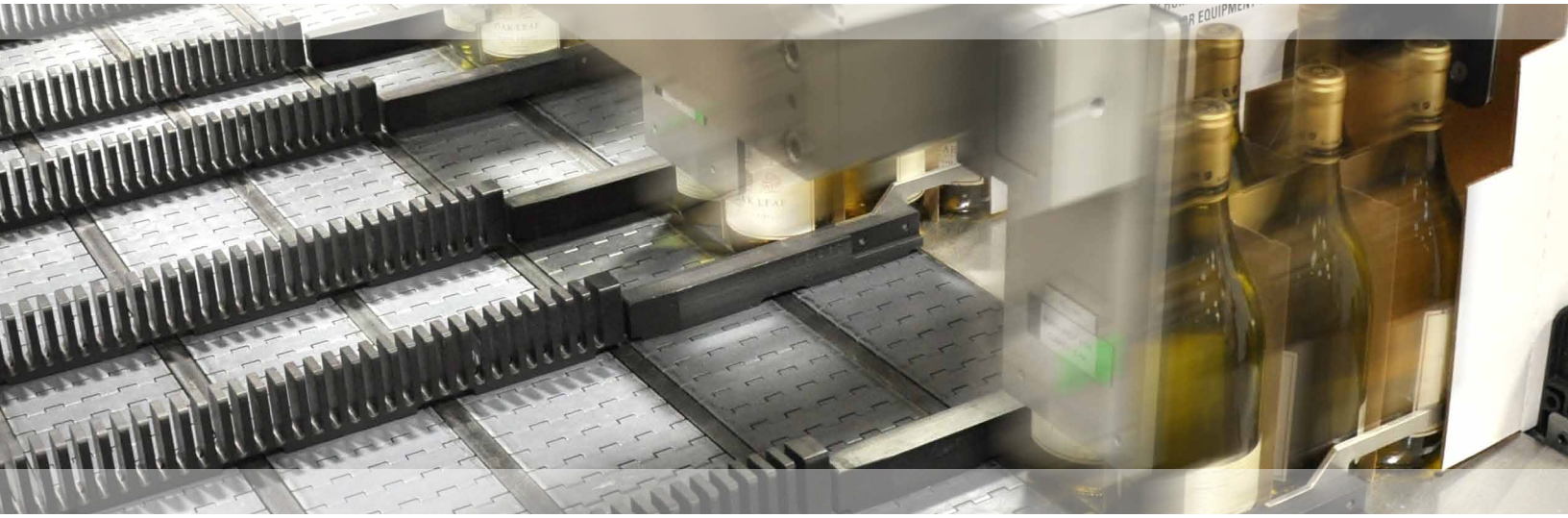
Axiom® ARC
Axiom® DL

CONTINUOUS MOTION CASE/TRAY PACKERS

Axiom ARC Case/Tray Packer pictured

Combining maximum speed and flexibility,
servo driven Axiom® continuous motion case/tray packers utilize smooth, continuous motion in all sections of the machines. To maximize throughput and improve product stability, cases never stop moving from loading to discharge. Servo functions reliably and accurately pack cartons, bottles, cans, jars, and jugs using innovative infeed technology and high-speed case loading methods with precise product control.

Douglas

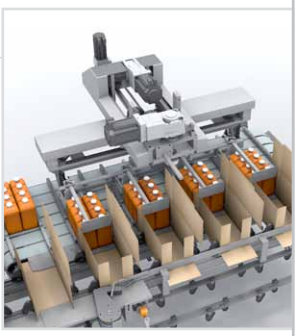


Efficient Pack-Pattern Loading

All Axiom loading techniques are designed to provide superior performance and reliability. Axiom continuous motion servo technology delivers smooth, harmonious performance during case loading, while maintaining accurate product control for a wide variety of pack-patterns. Patented design and precise servo control enable:

- Quick and repeatable changeovers
- Greater speed
- Gentler product handling
- Increased flexibility

Axiom® ARC



High-speed continuous motion packing with exceptional product control

The innovative Axiom ARC loader provides product containment across transfer points making it a great solution for unstable products at speeds up to 80 cases/trays per minute. The Axiom ARC manages a large range of product types and package sizes while its proven corrugated handling and technically superior loading system optimize efficiencies.

Axiom® DL

Mid-speed continuous motion packing with direct case loading

The Axiom DL uses an overhead sweeping motion to directly load product onto the case or tray blank, minimizing unnecessary components and enhancing production efficiency. Direct load enables a compact design and straight-through product flow at speeds up to 55 cases/trays per minute.

Flexible Conveying and Product Handling

A variety of advanced infeed solutions optimize performance for specific product types while maintaining gentle product handling to ensure the highest package integrity. Some commonly used systems include:

High-Speed Lane Divider - Easily handles round, rectangular, oval, and irregularly shaped products. The high-speed lane divider will ensure balanced lanes and gentle continuous motion product handling.

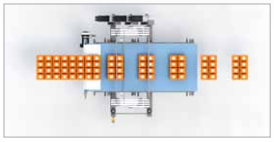
Easily integrates with Axiom ARC or Axiom DL

Smartrak® II - Mass flow infeed design eliminates soft bottle bridging and removes gaps to ensure pack-pattern accuracy and continuous product flow. Distinguishing features include modulated speed control programming for surge pressure relief at the choke point, single solid adjustment cross-members, tool-free clamps and pinned lane guide adjustment positions for stable operation and quick, accurate changeovers. By eliminating many mechanical changeover adjustments and replacing them with a one-clamp design, changeovers are seamless and fast.

Recirculating Conveyor - A complete recirculating loop system controls product population and reduces line pressure as products are distributed into lanes.

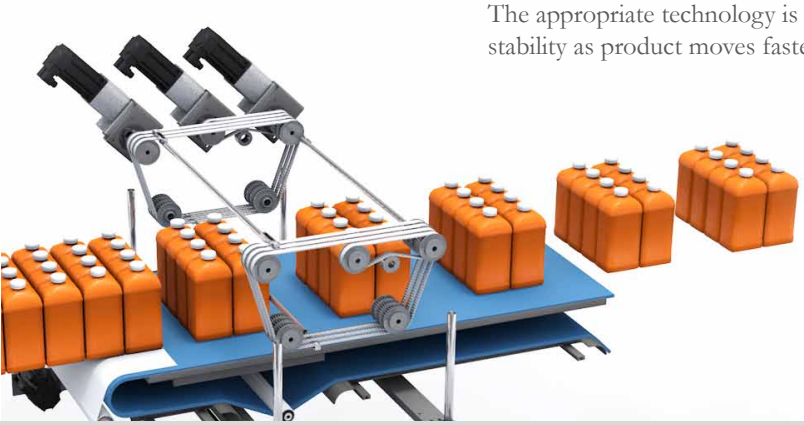
Pack-Pattern Collating Redefined

Douglas redefines the role of product pattern collating in high efficiency lines. Our patented technologies dramatically improve line throughput and production volume while providing remarkably stable product handling.



Slipstream™ - Patented pinless metering uses slip sheet methodology and servo technology to gently collate bottled, cartoned, canned and other products into pack-patterns without the use of tampers or escapement pins. Remarkable stability control results in faster handling than traditional metering methods. Tool-free changeovers and the intuitive HMI control panel also increase productivity.

The appropriate technology is determined based on speeds and your product. Slipstream offers more stability as product moves faster, especially with unstable product or odd size/shaped packaging.



Continuous motion partition insertion - When product partitions are included, servo controls precisely position and insert partitions without interruption.

Touch screen selectable product recipes automatically control precise adjustments throughout the machine.

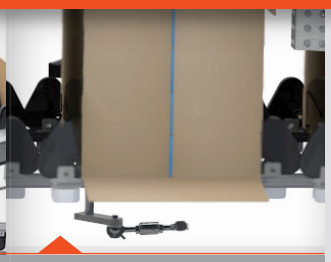
More Flexibility, More Accuracy, More Performance.

Most changeovers are accomplished through a simple menu-driven process on the HMI. Operators simply select from pre-programmed recipes for specific products, and servo motors precisely make the required adjustments.

Recipe control of machine motions makes changeover precise and repeatable, minimizing ramp-up time.

PRECISE PRODUCT AND CASE HANDLING

corrugated pick arm motion
(Axiom ARC pictured)



flight spacing
and motion

case squaring and
compression for sealing case

case flap traps
(Axiom ARC pictured)

flap tucker
timing and motion

handwheel control for
optimizing set points

There's a reason Douglas leads the industry in value-added offerings. It's not just our job... IT'S OUR COMPANY.

As a 100% employee owned company, you can rest assured that nobody works harder than Douglas to provide MORE for today's packagers.

As part of that commitment, we offer programs designed to keep your operation on the move and improve your bottom line.

Services like the **Reliability Assurance Program** provide comprehensive machine inspection, audit and analysis services to reach your maintenance goals and ensure maximum productivity.

Our **PartsDirect™ Program,** offers commercial OEM replacement parts at a guaranteed best price. See our web site for details and other value-add programs.

So when you choose Douglas, feel free to expect more. More knowledge, more innovation, more quality, more support. More of everything you need in a secondary packaging partner.

Reliability Assurance Program
Complete Diagnostic Maintenance

PartsDirect GUARANTEED

3 YEAR STANDARD COMPONENT & LIFETIME FRAME Warranty

Axiom ARC, Axiom DL CONTINUOUS MOTION CASE/TRAY PACKERS

	Axiom ARC	Axiom DL
SPEEDS	Up to 80 cases/min	Up to 55 cases/min
CASE SIZE RANGE (L = travel direction)	Min: 6"L x 8"W x 3.5"V Max: 12"L x 21"W x 13"V	Min: 6"L x 8"W x 3.5"V Max: 12"L x 21"W x 13"V
CASE TYPES	Wrap around cases (RSC, POL, FOL or harness style flaps), pre-glued knock-down KD cases, and trays	Wrap around cases (RSC, POL, or FOL flaps) and trays.
CASE HANDLING	6 ft magazine, vacuum pick and blank setup into flighted chain.	6 ft magazine, vacuum pick and blank setup, side shuttle merge of blank with product flow.
CASE SEALING	Nordson ProBlue 15 glue system Continuous motion flap folding and compression system.	Nordson ProBlue 15 glue system Continuous motion flap folding and compression system.
PRODUCT LOADING	High speed continuous motion ARC loader, product containment and product stabilizing features are available.	Inline product flow with direct loading onto the case bottom.
ADJUSTMENTS	Tool-free changeover, HMI selectable recipes, threaded screws, handwheels, and handknobs with position pointers and digital scales .	
FRAME/ FINISH	Powder coated tubular cold rolled steel, gray metallic, Dupont 616.	
GUARDING	Category 3 guarding. Full length polycarbonate with extruded anodized aluminum frames.	
DRIVE FUNCTIONS	Servo.	
ELECTRICAL	Rockwell Automation (AB) programmable logic controller, servos, drives and PV+ HMI. NEMA 12 wiring and enclosures. Washdown (optional).	
POWER:	One main drop and one glue drop 480 VAC, 50/60HZ, 3PH. Other power sources available.	
AIR	90 PSI (6.2 bar).	

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Douglas
More Than a Machine