

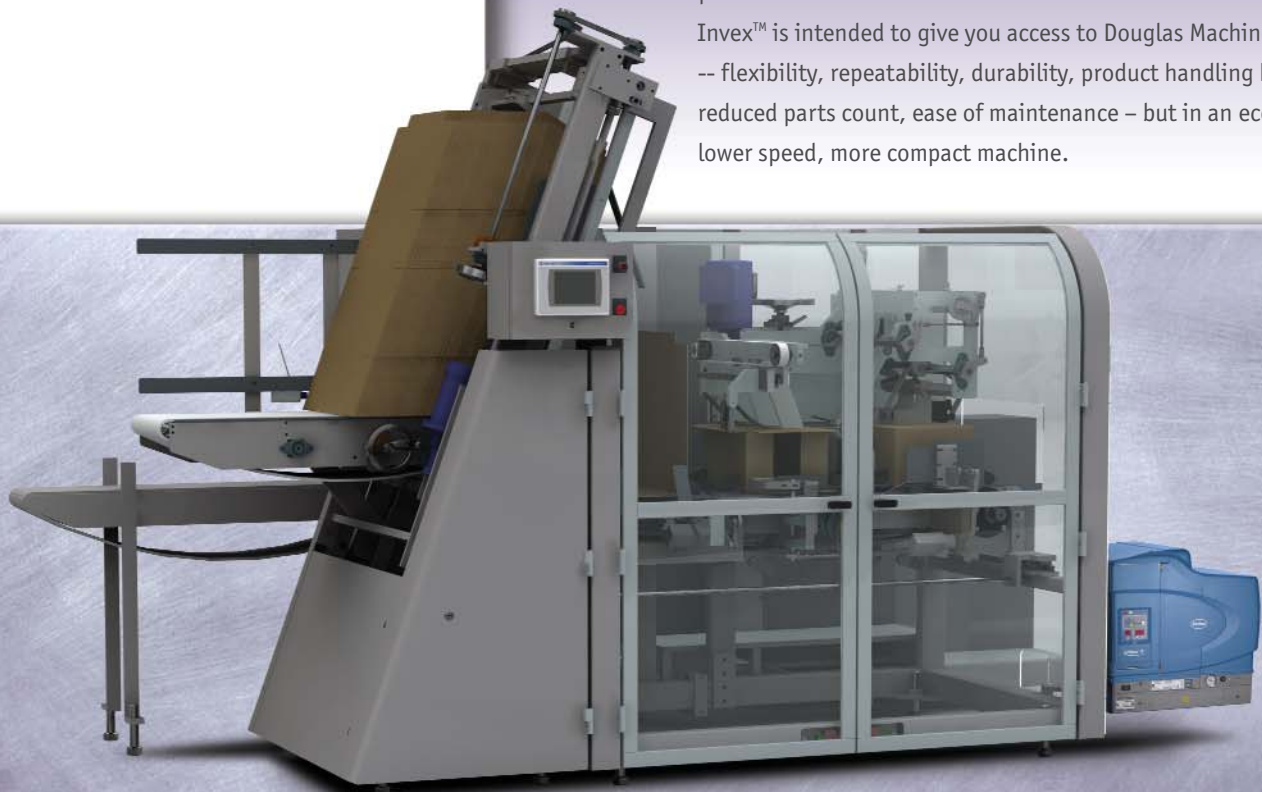


Invex™

CASE/TRAY PACKERS

Servos were once reserved for top-of-the-line machines, but no more. The new Douglas Machine Invex™ 'low speed' case packer (to 12 cases per minute) is ideally suited for the lower volume user in industries such as food, automotive, household and industrial products.

Invex™ is intended to give you access to Douglas Machine attributes -- flexibility, repeatability, durability, product handling knowhow, reduced parts count, ease of maintenance -- but in an economical, lower speed, more compact machine.



FLEXIBILITY-----

Electronic Motion Controls: Electronic motion controls replace many air cylinders with more controllable electronic motion equating to fewer jams, reduced maintenance, lower costs, and quiet operation.

SIMPLICITY-----

More Adaptable: Motors are more adaptable to run a wider range of products, and changeovers are faster because they are readily programmed. Changeovers are more repeatable as well, because motors are much more precise.

EFFICIENCY-----

Fewer Components: Compared to competitive offerings, Invex™ uses automation to reduce the discrete component count, especially for labor-intensive adjustable components such as valving and sensors that may need to be repositioned during a changeover. Electronic camming replaces mechanical drivetrains and their soft programmable limit switch (PLS) replaces discrete hardware PLS.

INNOVATIVE-----

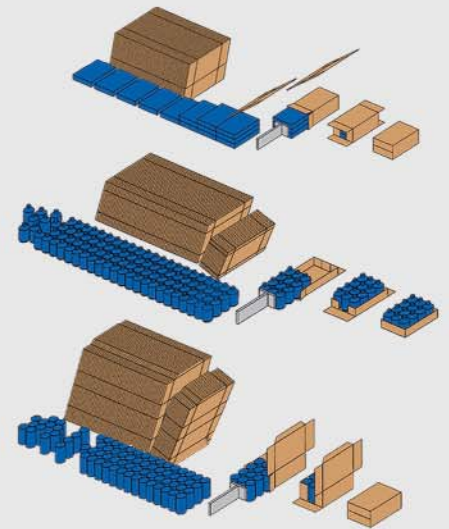
Overall Innovation: Diagnostics are comparable to the Axiom®. The operator or technician is able to pinpoint the root cause of problems from the human machine interface (HMI) -- such as where a jam occurred, how it happened and fault history.

OMAC Packaging Guidelines Compliant: The Invex™ provides standards-based connectivity and an IEC conforming software structure that is PackML- and PackTags-ready.

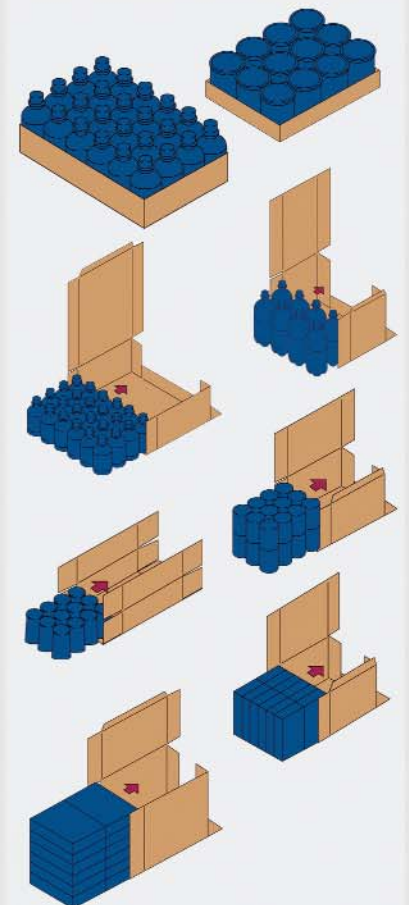


SPECIFICATIONS:

- DRIVE:** Servo/stepper motors.
- PITCH:** 25"
- FLIGHT CHAINS:** #50 series chain.
- SPEED:** Up to 12 cases/trays per minute (product and pack pattern dependent).
- PRODUCT SIZE RANGE:** Per project specification.
- PACKAGE SIZE RANGE:** Per project specification.
- MAGAZINE CAPACITY:** 3 ft. (.91 m.).
- FRAME:** Tubular steel.
- ADJUSTMENTS:** Threaded screws, handwheels and handknobs with position pointers and scales. Digital scales, phase adjustments and tool-free packages (optional).
- SETUP:** Servo driven positive placement setup with vacuum.
- GLUE SYSTEM:** NORDSON ProBlue® or per project specification.
- FLAP CLOSING AND COMPRESSION:** Stepper motions.
- GUARDING:** Full length polycarbonate with extruded anodized aluminum frames.
- ELECTRICAL:** Programmable logic controller.
7" Color touchscreen HMI.
NEMA 12 wiring and enclosures.
Stackable warning lights (optional).
- FINISH:** Gray metallic powder coat epoxy. Other colors optional.
All parts in contact with product are stainless steel, anodized aluminum, 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



Douglas Machine Inc.
3404 Iowa Street • Alexandria, MN 56308 USA
Tel: 320.763.6587 • Fax: 320.763.5754
E-mail: info@douglas-machine.com
www.douglas-machine.com