

OPTX™

HIGH PERFORMANCE CASE, TRAY AND SHRINK SYSTEMS



Clearly **Simplified**
Packaging Performance.

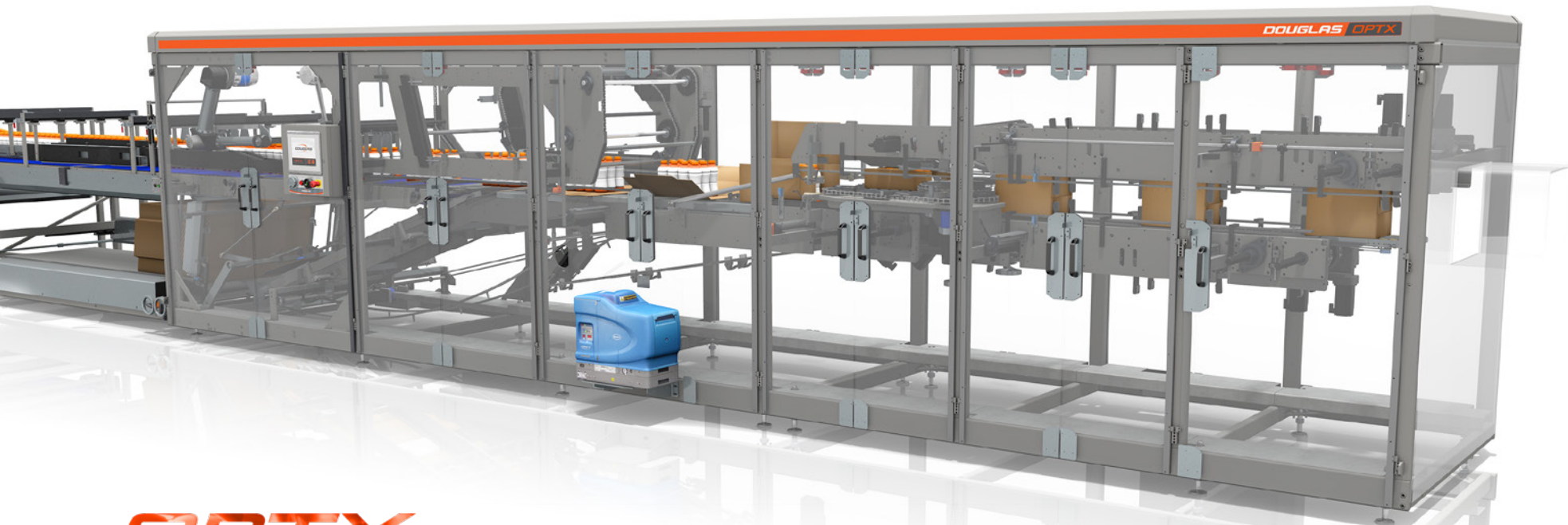
This is what **Customer Driven** packaging looks like.
Clean and lean, high performance with low maintenance.
Reimagined from every angle to deliver enhanced package
appearance and durability with next level simplicity and efficiency.

OPTX™. Everything you're looking for, and **more**.

DOUGLAS

EMPLOYEE OWNED, **CUSTOMER DRIVEN.**

*80/105 and Wraparound **Series***



OPTX™

Simply more productive.

You told us simplicity and efficiency were top priorities. We listened and made them our focus. With OPTX™, every element was designed to enhance performance, simplify operation and reduce maintenance.

Intelligent and adaptable, OPTX solutions offer open, easy access, simplified control, advanced heat tunnel technology, superior efficiency and ultimate reliability.

OPTX systems were developed to meet all facets of today's accelerated production challenges, while ensuring your brand is consistently presented with industry-leading package appearance and durability.

Bottom line? With OPTX, producing the best looking packages on the shelf has never been easier.



S-80/S-105 Shrink Wrappers:
Product **wrapping** and **shrink** tunnel



T-80/T-105 Tray Packers:
Product **metering**, **grouping** and **tray** packing



M-80/M-105 Multiwrappers/Bundlers:
Film-only packs or packs with **base pads**



SPS-80/SPS-105 Tray/Shrink Systems:
Options include **pad** and **film-only** capability



WA/WT Case and Case-Tray Packers:
Wraparound cases, inline **direct load** simplicity



WTS Case and Tray/Shrink Systems:
More flexibility



Infeed Solutions

Flexibility & Performance

Flexible, low pressure conveying solutions are engineered to ensure gentle product handling and ultimate reliability. Built in changeover simplicity minimizes production interruptions, easily accommodating multiple product sizes and package configurations on demand.

- Mass flow or individual lane infeed solutions accommodate round, square or alternative shaped products
- Product optimized lane guide design and vibratory options minimize bridging and binding

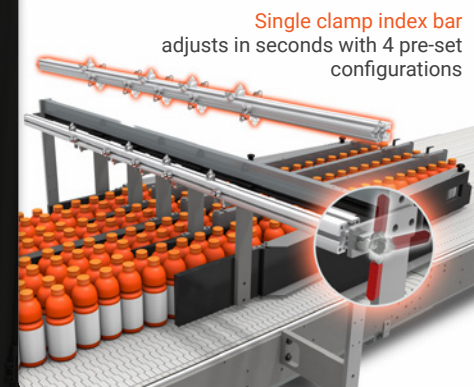


Adjustment tooling sets lane positions, eliminating many manual changeover settings

SMARTRAK II

Patented infeed systems

Designed to optimize product flow by controlling product surge and lane population, adding no-tool pinned lane adjustment for fast, accurate changeovers.

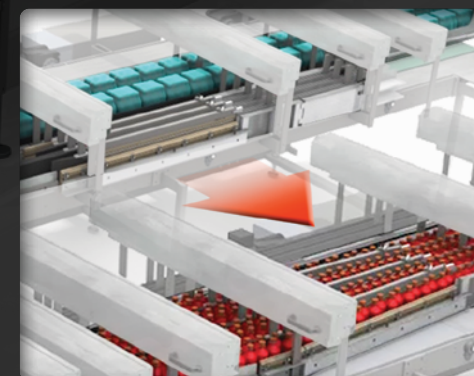


Single clamp index bar adjusts in seconds with 4 pre-set configurations

SmartSelect

Automated lane position changeover option

SmartSelect™ offers automated lane position changeover providing infinite adjustment positions for mass flow or laned products.



Metering & Grouping

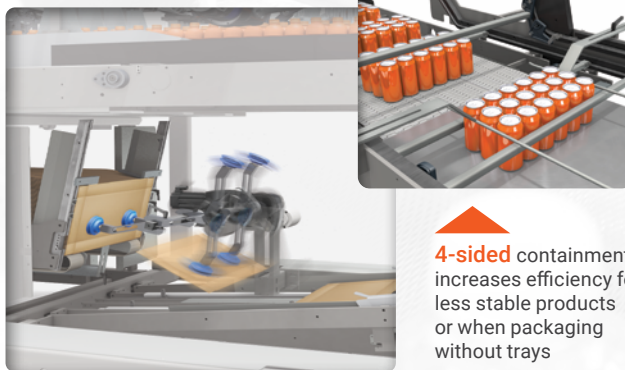
Simplicity & Control

- OPTX metering systems are designed to accommodate a variety of products including shaped cans and bottles, cartons, and bundles with simplified changeover
- Full-width grouping section conveyors optimize product stability and size range flexibility
- Controlled release and acceleration of product groupings for efficient transfer to sweep bars
- OPTX design principles reduce mechanical hardware for exceptional visual and physical access, providing simplified operation, faster changeovers and reduced maintenance



Case/Tray feeding & pack forming

- OPTX 80/105 series balanced orbital tray feeder motion is engineered for high speed performance, access and low maintenance
- Wraparound series reciprocating case and tray feeder efficiently manages size range
- Simplified tray/case feeder and metering system designs enable lower machine elevation and ease of access
- Seamless merging and loading provides precise control of both product and corrugated materials



4-sided containment increases efficiency for less stable products or when packaging without trays

Variable Path Robotic Metering

Intuitive operation physically registers leading edge of product groups and controls group separation from incoming flow.

- Recipe setting of product group length and controlled separation
- Dual overhead pin bars register and release product groups of round products
- A simple change to straight metering bars and recipe selection positively meters groups of cartons, bundles and square-cornered products
- Changeover is simplified with open access to pin bars and unobstructed lane guide positioning



Slipstream™ Pinless Metering

Pinless metering manages incoming line pressures for highly accurate product registration and more.

- Provides slip sheet grouping of pack patterns for tray packing
- Run bottles, cartons, cans and more without the use of tampers or escapement pins
- Tool-free changeovers and preprogrammed settings increase productivity



Case Forming & Sealing

Durability & Output Quality

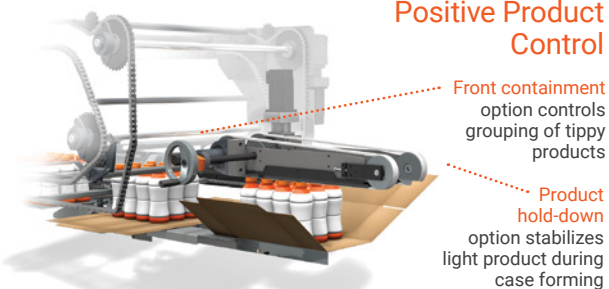
A combination of durability and smart design optimize control of product, case forming and sealing. OPTX case handling delivers consistency in performance, lower operating costs and optimized package quality for high-production operations.



Cases: Wraparound style run with flaps leading and trailing



Trays: Conventional end-slotted trays run wide-side leading



Consistent Compression and Sealing

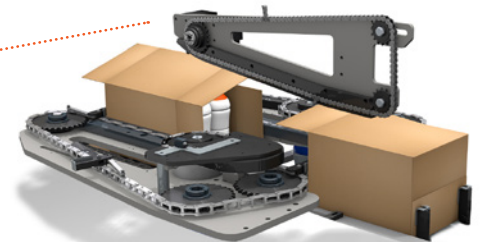
Compression design provides long-life durability, adjustability and seal performance



Simplified compression block design utilizes hardened chain components, no bushings or cam tracks

Case Quality

Top panel control prevents drag-back and positively aligns panel and score lines to improve case squaring



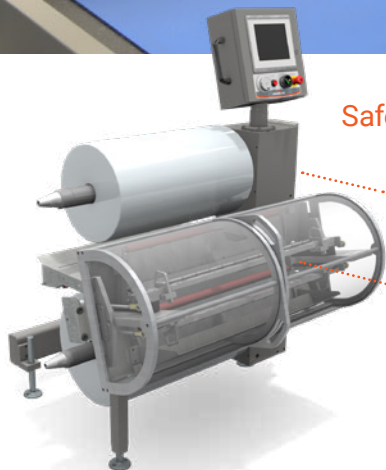
Film Handling & Wrapping

Simplicity & Reliability

Operating tolerance and efficiency are clearly in focus with OPTX film handling technology. Performance enhancing features are integrated into every element, delivering simplified operation, maximum uptime and exceptional finished shrink package quality.



Precise film delivery
and wrapping profiles
set the stage for exceptional
finished package quality



Safer, More Efficient Film Stand

Ergonomic side-mounted
film stand improves
operator comfort,
safety & efficiency

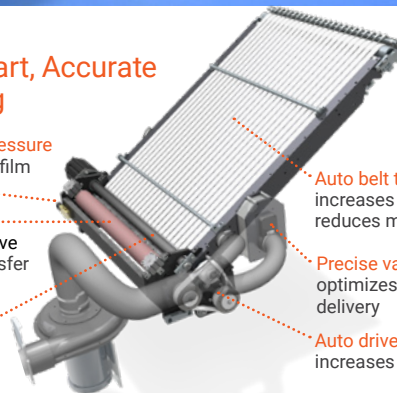
Optional automatic
film splicer maximizes
uptime & improves
operator productivity

Simple, Smart, Accurate Film Cutting

Pushbutton nip pressure
release simplifies film
threading

Single nip roller
innovations improve
film cutting & transfer
performance

High speed knife
optimizes cutting
performance



Auto belt tensioning
increases reliability &
reduces maintenance

Precise vacuum control
optimizes cutting &
delivery

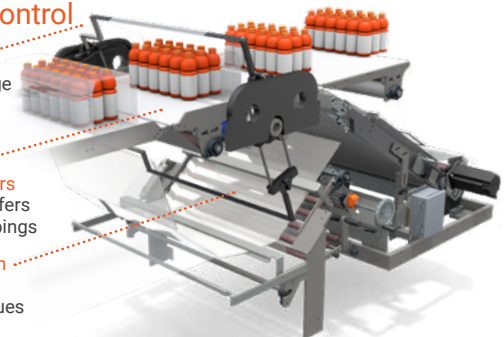
Auto drive belt tracking
increases belt life

Precise Film Control

Wrapping wand
profiles match package
size & optimize film
positioning

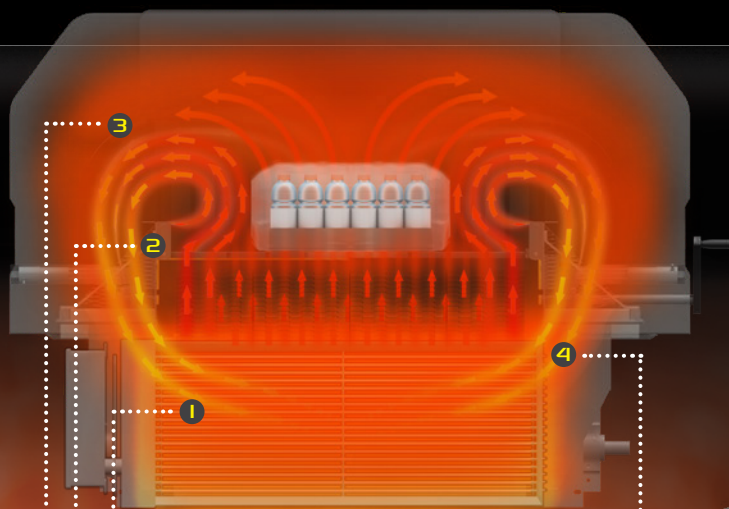
Full width belting
& small diameter rollers
smooth product transfers
& maintain tight groupings

Advanced roller design
minimizes wrinkling
& overlapping film issues



XACT360™

AIR CONTROL TECHNOLOGY



Heated air is delivered through conveyor chain with laminar flow to bond the lap seal and surround each package 360°

With simple recipe selection, exclusive "air knives" automatically adjust to inject targeted air precisely where needed for specific pack characteristics

Gentle laminar airflow improves package consistency by reducing wrinkle-inducing turbulence in the tunnel

Recycling of cooled air reduces heater loads and minimizes heat loss, while tunnel outer shroud temperatures remain cool to the touch

This is what Customer Driven shrink performance looks like.

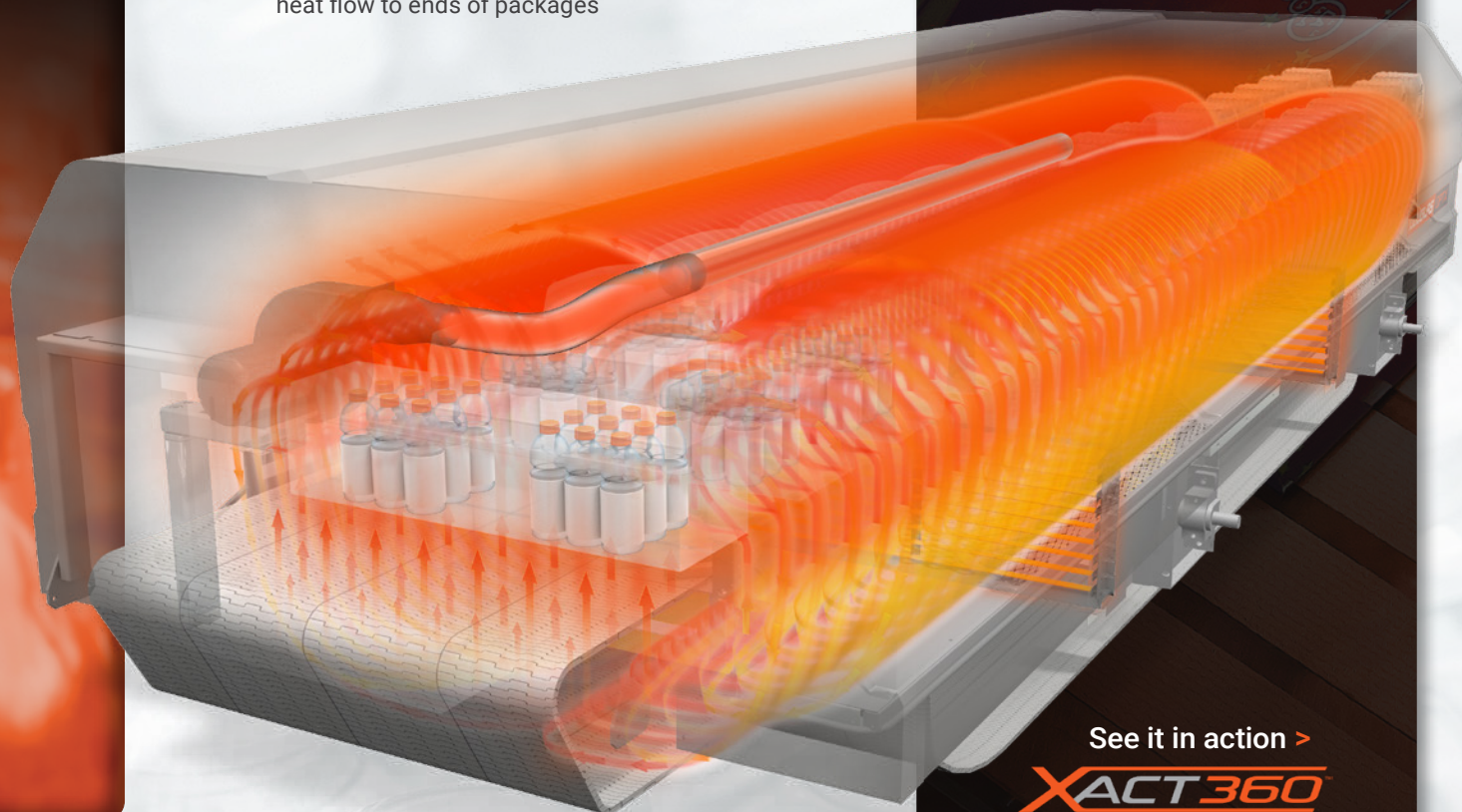
Engineered using computational fluid dynamics, XACT 360™ manages airflow with unprecedented simplicity to deliver air exactly where it's needed for each of your products, whether running single or multi-stream production.

Simplified tunnel setup and changeover

- Precise recipe driven control of air temperatures and velocities
- Recipes include "air knife" settings to optimize package quality by directing heat flow to ends of packages

Unprecedented Multi-Stream Performance & Set Up Simplicity

- 360° of targeted air control
- Heated air from within the tunnel is directed between packages to balance film shrinkage around packages
- Eliminates complex ducting between packages and related adjustments
- Patented design enables shrink tension between packages to shape bullseyes before fully separating packages
- Easy access setup key establishes optimal heat flow through conveyor for film only packaging



See it in action >

XACT360™

OPTX™ Xactly what you've been looking for.

320.763.6587 | douglas-machine.com

Customer Driven After-Sale Support



Douglas is proud to provide our customers with world class service

Remote Service Technicians are located throughout the United States to offer local support as quickly as possible. We offer exceptional programs designed to keep your operation on the move and improve your bottom line. Machine inspection, audit, analysis, training and a solid warranty just to name a few. Our team is dedicated to assisting you throughout the life of your equipment.

When you choose Douglas, you're getting more than a quality product, you're gaining a complete **Customer Driven** experience. In every aspect of your relationship with us, our friendly and skilled employee owners are 100% committed to provide you with valuable and effective collaboration, innovative solutions, responsive support and more.

more. It's not just what we do, it's who we are.

Discover how **Customer Driven** means **more** for you. Contact Douglas at 320.763.6587 or info@douglas-machine.com to discuss your packaging needs today.

Visit douglas-machine.com for details about our company, our products/solutions and our service & support.

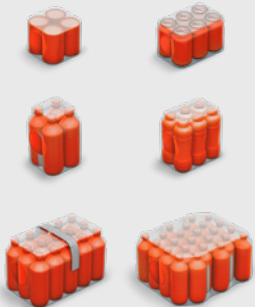
Specifications

SPEED	OPTX 80 Series: up to 80 cycles/minute OPTX 105 Series: up to 105 cycles/minute OPTX WA/WT/WTS: up to 80 packs/minute
PACKAGE SIZE RANGE Direction of Travel x Vertical x Across Machine	SPS, T and S models Min: 5" (127 mm) x 3" (76 mm) x 9.25" (235 mm) Max: 13" (330 mm) x 12" (305 mm) x 22" (558 mm) M models Min: 3.5" (90 mm) x 3" (76 mm) x 7" (177 mm) Max M-80: 11" (279 mm) x 12" (305 mm) x 22" (558 mm) Max M-105: 8" (203 mm) x 12" (305 mm) x 22" (558 mm) WA, WT, and WTS models Cases: Min: 6" (152 mm) x 5" (127 mm) x 5.75" (146 mm) Max: 20" (508 mm) x 14" (356 mm) x 16" (406 mm) 2-5" flaps, 1.5-2.0" mfr. flap, 1.25" min major flap gap Tray packs: Min: 5" (127 mm) x 3" (76 mm) x 9.25" (235 mm) Max: 13" (330 mm) x 14" (356 mm)* x 22" (558 mm) *12" (305mm) max vertical when shrink wrapping
FILM THICKNESS	1.5 mil to 3.5 mil printed or non-printed film
FILM WIDTH	Maximum 32" (812 mm)

Specification limits may not be available in all combinations and are subject to change without notice. For custom specifications and information, contact your Sales Manager today at 320.763.6587 or info@douglas-machine.com.

Typical Pack Patterns

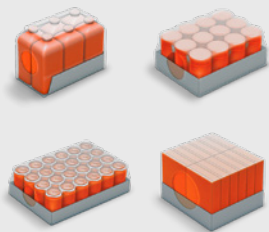
Film-only packs



Pad-shrink packs



Tray-shrink packs



Wraparound case packs

