## Contour 30/60 Series

SHRINK WRAP SYSTEMS



### Higher performance through advanced solutions.

Boldly at the forefront of packaging trends and market demands, the Contour Series continues to raise the standards for shrink wrap performance. With intelligent, adaptable and economical solutions offering advanced heat tunnel technology, superior efficiency and ultimate reliability, our shrink wrap systems meet all facets of today's accelerated production challenges while ensuring your brand is consistently presented with industry-leading package appearance and durability.



Douglas Provides More with Contour Shrink Wrap Systems



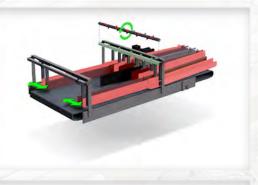
### Contour™ 30/60 Series

Contour Tray Packers and Shrink Wrappers are available as stand-alone units or fully integrated systems. These two versatile systems deliver exceptional performance and the best finished package appearance and durability available.

The Contour Series offers a full spectrum of innovative features that maximize speed and easily accommodate large size ranges and pack patterns ideal for the food and beverage industries. Contour Series offers more operational advantages, more consumer appeal, more of everything you need to stay ahead of the pack.

- Clear or printed film
- Film-only, pad, u-board and tray solutions
- · Single stream and multi-stream capabilities
- Single or dual spindle side film stands assure proper ergonomics and add convenience for film loading and splicing
- Flexible servo driven wrapping wand provides exceptional film control and accurate film placement
- Simple and repeatable changeovers
- S-curve magazine eases blank loading
- Automatic film splicing option provides a reduction in critical machine downtime
- Automatic changeover option provides fast, repeatable changeovers

## Enhanced Productivity Through the Power of Innovation



Smartrak® Mass flow infeed design eliminates soft bottle bridging and removes gaps to ensure pack pattern accuracy and continuous product flow.

- Modulated conveyor speeds control product surge and aid flow
- Tool free clamps and pinned lane guide adjustments for stable operation and quick, accurate changeovers
- Single clamp design at each cross-member quickly lock-in multiple lanes



SmartSelect™ Repeatable, pushbutton changeover reduces infeed changeover time to less than 5 minutes.

- Allows the placement of lanes where desired as opposed to centerline or fixed side adjustments
- More customer options for generating product-specific recipes
- Recipe-driven rail positions lock in place to within +/- 1/32"
- Infeed rail's holding force withstands high product pressure



Slipstream™ Mid-speed pinless metering offers highly accurate product registration for slower speed applications.

- Provides slip sheet grouping of pack patterns for tray packing
- Run bottled, cartoned, canned and other products without the use of tampers or escapement pins
- Tool free changeovers and preprogrammed settings increase productivity



Variable Path Metering Innovations to our patented Slipstream pinless metering system incorporate variable path registration bar technology and slip sheet technology.

- Gently groups and meters products into the machine
- Dynamic variable path motion registers products with less pressure and interruption to product flow

## Package Quality Requires Precision Film Control





## **Precise Film Delivery**

The single nip roller and vacuum belt film delivery combine with a servo driven cutting knife to provide efficient operation. Flexible servo driven wrapping wands use pre-cut cam tracks that enable the wand to match the product height and wand rotational speed. This results in increased film control and accurate film placement.

## Automatic Film Splicer (optional)

The ergonomically designed automatic film splicer delivers precise print registration and heat splicing, reducing critical machine downtime. The easy access side film stand enables operators to stage clear or printed film at their convenience, while the machine is running. Staging during operation maximizes production time and minimizes the occurrence of empty film faults. Once the film is staged, splicing occurs automatically, providing the additional benefit

of greater workload flexibility



## Advanced Shrink Technology Enhances Your Brand

The Douglas Contour™ revolutionary patented heat tunnel is designed with the aesthetics of your product in mind. Whether your application calls for single or multiple lane production, unprecedented heat and airflow management ensures minimal graphic distortion, consistent bull's-eyes and a tighter, more durable wrap for maximum package integrity and appearance. Enhanced tunnel operations significantly reduce noise and exterior heat temperatures, contributing to a quieter, cooler plant environment.





The heat system is designed so the air supplied to the distribution system is perfectly uniform, eliminating film distortion due to hot or cold pockets. The Contour continuously recycles the air as it heats, decreasing the amount of energy required to reach operating temperature. A well insulated heat tunnel minimizes heat loss, which also maintains a safe outer surface temperature.



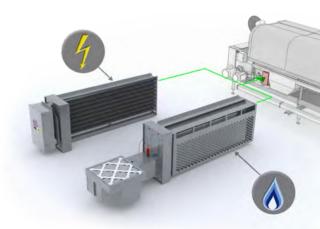
At the heart of this innovation is a unique combination of design features which result in "laminar" airflow, rather than "turbulent" airflow, which most shrink systems use today. Unlike turbulent airflow, which causes a multitude of shrinking inconsistencies, our proprietary laminar design precisely balances the heated air, perfectly "coating" the film from every direction, shrinking and sealing the film in an even, predictable manner.



Evenly heated air passing through the conveyor web contacts the film under the product resulting in consistent "air weld" of the film lap seam. Tunnel chain temperature and airflow are precisely adjusted through product specific recipe-driven changeovers. Poor lap sealing or holes melted in the seams are eliminated, resulting in strong and even seams that hold up to the rigors of distribution and stocking operations.

## Gas Powered Heat Tunnel (optional)

Reduce energy costs and improve production efficiency with a shorter heat-up time by using gas instead of electricity to heat the shrink wrap tunnel. Tunnels heat from 75°F to 360°F in just 15 minutes cutting the heat-up time by almost 30%. Depending on local energy costs and the type of machine used with the gas tunnel, it is estimated that companies could cut energy costs up to 75%. Contact Douglas to calculate your estimated cost savings.



#### **Specifications**

SPEED 30 Series: up to 30 cycles/minute 60 Series: up to 60 cycles/minute

PACKAGE SIZE RANGE  $Standard \ Minimum: 5" (130mm) \times 3 \ 1/2" (90mm) \times 8 \ 1/2" (215mm) \\ Standard \ Maximum: 15 \ 3/4" (400mm) \times 12" (305mm) \times 22" (560mm) \\$ 

\* Direction of Travel x Vertical x Across Machine

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

#### **Typical Pack Patterns**







# Customer Driven - After Sale Support



## Douglas is proud to provide world class service for all our customers' needs.

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.

To discover how **Customer Driven** means **more** to you, contact Douglas Machine 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.



## Contour. 80/105/150 Series

SHRINK WRAP SYSTEMS



### Boldly at the forefront

of packaging trends and market demands, the Contour' series continues to raise the standards for shrink wrap performance. With intelligent, adaptable solutions offering advanced heat tunnel technology, superior efficiency and ultimate reliability, Contour systems meet all facets of todays accelerated production challenges while ensuring your brand is consistently presented with industry-leading package appearance and durability.



# Higher Productivity Through the Power of Innovation

Available as stand-alone or fully integrated systems for film-only, pad, u-board and tray applications, Douglas gives you more with Contour shrink wrap systems. More operational advantages, more consumer appeal, more of everything you need to stay ahead of the pack. The Contour Series offers a full spectrum of innovative features that maximize speed and easily accommodate large size ranges and pack-patterns for the food and beverage industries.





## **Revolutionary Heat Tunnel Protects and Enhances Your Brand**

The Douglas Contour® heat tunnel is designed with the aesthetics of your product in mind. Whether your application calls for single or multiple lane production, unprecedented heat and airflow management ensures minimal graphic distortion, consistent bull's-eyes and a tighter, more durable wrap. Enhanced tunnel operations significantly reduce noise and exterior heat temperatures, contributing to a quieter, cooler plant environment.







1 High Efficiency Heat Source

The heat system is designed so that the air supplied to the distribution system is perfectly uniform, eliminating film distortion due to hot or cold pockets. The Contour continuously recycles the air as it cools, decreasing the amount of energy required to reach operating temperature. A well insulated heat tunnel minimizes heat loss, which also maintains a safe outer surface temperature.

2 Balanced Laminar Airflow

At the heart of this innovation is a combination of design features, which result in "laminar" airflow, rather than "turbulent" airflow, which most shrink systems use today. Unlike turbulent airflow, which causes a multitude of shrinking inconsistencies, our proprietary laminar design precisely balances the heated air, perfectly "coating" the film from every direction, shrinking and sealing the film in an even, predictable manner.

3 Precision Lap Seam Welding

Evenly heated air passing through the conveyor web contacts the film under the product resulting in consistent "air weld" of the film lap seam. Tunnel chain temperature and airflow are precisely adjusted through product specific recipe-driven changeovers, optimizing performance. Poor lap sealing due to insufficient heat or holes melted in the seams due to overheating are eliminated, resulting in strong and even seams that hold up to the rigors of distribution and stocking operations.

up to 4 commonly run products.



## **Efficient Pack-Pattern Collating and Loading**

Douglas Machine redefines the role of pack pattern collating in high efficiency lines. Dramatic improvements to line throughput and product volume are realized, while providing maximum product handling stability with patented, proven technology.

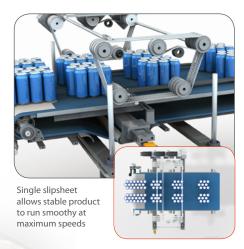
Slipstream™ HS / Slipstream™ SS — pinless metering using slip sheet methodology and servo technology to gently meter bottled, cartoned, canned and other products in appropriate pack-patterns without the use of tampers or escapement pins. Remarkable stability control allows for faster handling than traditional 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 SS offers more stability as product moves faster, especially with unstable product or odd size/shaped packaging.

Slipstream SS
Speed Stabilized pinless metering

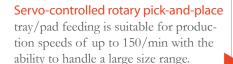


Slipstream HS
High Speed pinless metering



# Maximizing Speed and Efficiency

From infeed, through product handling to our industry-leading shrink process, Contour offers innovative, common sense solutions that optimize performance throughout the process. Not satisfied with simply modifying existing technology, Douglas continually challenges conventional thinking to develop real-world advantages that deliver optimum throughput and unparalleled adaptability.



#### Film stands are side-mounted to

assure proper and productive ergonomics. The stand mounts outside the machine at the operator's waist level to ensure easy film roll loading. A second film spindle provides easy access to a spare film roll and convenient film splicing increases uptime.



### Revolutionary high speed cutter

offers options for a wide range of shrink materials. By efficiently cutting film as thin as .001 and maintaining the necessary speeds, production is increased while costs are reduced.

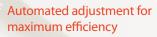


# Flexible servo-driven wrapping wands

use automated circular, elliptical or trapezoidal wand paths programmed to match the product size and pack speed. This results in increased film control and highly accurate film placement. Additional benefits include a large size range, the ability to accept randomly spaced products, and fewer parts to maintain.

#### Wide belt, high speed wrapper tables

dramatically reduce or eliminate maintenance. Belt tracking loads are effectively absorbed, allowing faster continual speeds made possible by our advanced needle bearing design. Wrapper table nose bar assemblies have direct accessibility for replacing or repairing parts quickly and easily without removing tables.



Auto-adjust tunnel settings are fully recipe-driven tuned to each product and guaranteed repeatable.





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.











#### Contour 80/105/150 Series SHRINK WRAP SYSTEM

DRIVE: Servo motors

PITCH: Application dependent FLIGHT CHAINS: Application dependent

SPEED: Series 80 - Up to 80 cycles per minute

Series 105 – Up to 105 cycles per minute Series 150 – Up to 150 cycles per minute

Direction of Travel Vertical Across Machine PRODUCT SIZE RANGE: Minimum 5 in. (130mm) 3-1/2 in. (90mm) 8-1/2 in. (215mm) Maximum 15-3/4 in. (400mm) 12 in. (305mm) 22 in. (560mm)

FILM LENGTH: Minimum: 18 in. (460mm) Maximum: 42 in. (1,070mm)

FILM THICKNESS: Printed or non-printed: 1 mil. to 3 mil.

FILM WIDTH: 30 in. (760mm) standard

Model dependent

LEGS: Threaded

**ADJUSTMENTS:** Threaded screws, handwheels and handknobs with position pointers

and scales. Digital scales, phase adjustments and optional auto-adjust

**GUARDING:** Polycarbonate guarding.

Other guard packages per project specification (optional) Allen Bradley ControlLogix motion and logic control

**ELECTRICAL:** 

or per project specification NEMA 12 wiring and enclosures

NEMA 4 or 4X wiring and enclosures (optional)

FINISH: Gray metallic baked-on epoxy powder coat. Other colors per project

specification. All parts in contact with product are stainless steel, anodized

aluminum, and plastic. OEM parts are manufacturers' standard finish

**INSTALLATION** REQUIREMENTS

POWER: One main drop and one glue drop (if required). 480 VAC, 50/60HZ, 3PH

Other power sources available

AIR: Per project specification

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