

Designers and Manufacturers



of Shrink Packaging Machinery

Shanklin, the Shanklin logo, Synchronic, Harmonic, Flowrap, and the Triumph are registered trademarks of the Shanklin Corporation.

Shanklin Packaging Machinery is manufactured under one or more of the following U.S. Patents: 3,312,811, 3,490,981, 3,583,888, R30,010, 4,035,983, 4,219,988, 4,339,093, 4,419,855, 4,447,284, 4,537,016, 5,097,939, 5,131,213, 5,321,230, 5,597,499, 5,675,958, and Pending.

>Our Company



In 1961, my father, Dunbar L. Shanklin, and I founded a company dedicated to engineering excellence in the packaging industry. During the early years, we performed consulting research for clients in several areas of packaging technology. Today, our engineering excellence has created a superior line of shrink packaging machinery, which is produced in our modern, well-equipped factory.

Our New England location has been one of the keys to Shanklin's success. The heritage of this region inspires innovation and nurtures skilled craftsmen who take pride in their work. Our company continues this tradition, and a touch of "Yankee ingenuity" is engineered into each Shanklin Shrink Packaging Machine. Our goal is for each of our machines to be the finest of its type in the industry.

All of us at Shanklin are dedicated to this goal. Our engineering team is continually refining existing machines, and we enjoy the challenge of designing new machines as packaging technology moves forward. The mechanics in our shop take pride in making precision parts and assembling them into machines that meet our exacting specifications. And our technicians carefully evaluate each machine to ensure that it is operating properly before it leaves our plant.

Today, a third generation of Shanklin family in management adds fresh vitality to our company. But our objective is still the same: to excel in the design and manufacture of shrink packaging machinery.

F. Garrett Shanklin

F. Garrett Shanklin
Founder

Engineering

Shanklin Corporation was founded on its engineering excellence. Since our beginning, Shanklin machines have incorporated a blend of creative ingenuity tempered by sound engineering design. Shanklin engineers are responsible for designing or selecting the high quality components that are assembled into each machine. They continually strive to improve existing machines, and they enjoy the challenge of designing new machines as technology moves forward. Our engineers are committed to keeping us the leader in shrink packaging technology.

Our engineering department has played a major role in building the Shanklin reputation for quality packaging machines. And today, Shanklin engineering excellence sets the standard throughout the shrink packaging industry.



Our machines are a blend of creative ingenuity and sound engineering that withstand the test of time.

Computerization

State-of-the-art computers are an integral part of Shanklin's operation. CAD/CAM systems assist our engineers in designing our machinery and in writing the manufacturing programs. The extensive use of CNC (Computer Numerical Control) machine tools increases the efficiency of our shop while helping to assure the production of uniformly high quality parts.

Information processing and retrieval are instantaneous, thanks to our Manufacturing Systems Computer. When a machine is ordered, our computer helps our people to acknowledge the order, print the Bill of Material, check inventory for parts, and order needed parts. It also assists our Production personnel in tracking the machine as it proceeds through the shop.



Craftsmanship

Shanklin has trained a dedicated force of skilled craftsmen who take pride in their ability to produce superior machines. Most of the specially manufactured parts that go into Shanklin machines are produced in our own factory, and the extensive use of computer-controlled machinery helps to ensure maximum quality at minimum cost.

Shanklin machines are assembled by highly skilled mechanics who make sure that every machine is built according to our exacting specifications. Then, every Shanklin machine is checked out and run by one of our top-rated mechanics to ensure that it will operate properly before it is shipped.



Parts Service

Shanklin Parts Service is an important benefit that comes with every Shanklin machine. Our Parts Department stocks an extensive inventory of replacement parts. In-stock parts are shipped within 24 hours after receipt of the order, and all back-ordered replacement parts are rushed through our shop on a priority basis. Our aim is to keep all Shanklin machines running properly all the time.



Distributors

Shanklin distributors play an important role in assuring that our customers receive the utmost performance from their Shanklin machines. Our distributors, with their extensive experience in all phases of shrink packaging, will help you determine which Shanklin machine is best for you. In fact, they will put the entire system together for you, including wrapping film, machinery, and accessories.

When you receive your new machine, your local Shanklin distributor will be able to assist you with installation, start-up service, training, and whatever ongoing service you may need to help you keep your line running in tip-top condition for years to come.



Distributor Support

We at Shanklin recognize the importance of giving our distributors the best possible support. We maintain and operate a Technical Service Department for the express purpose of assisting our distributors in the application and maintenance of Shanklin machines. Distributor training programs are scheduled frequently in our plant, enabling our sales specialists and technical service personnel to share with our distributors the knowledge that they have acquired during their many years of experience in the shrink packaging industry.





Laser technology fed by our CAD/CAM system allows us to cut sheet steel to any shape that can be drawn on paper.



Models S-23, S-23A and S-23B L-Sealers

- > **Manual Operation**
- > **Sealer Size – 20"W x 17"L**
- > **Speed – 15 to 20 packages per minute**
- > **Floor Space – 3' x 5' approximately**

The Model S-23 is an inexpensive, hand operated machine for wrapping packages in centerfolded film. The operator inserts the product into the film and onto the sealing table, lowers the sealing arm, and holds it closed while the seal is being made. The film dispenser is equipped with a spring-loaded dancer roll to take up starting inertia. The height of the sealing table is adjustable so that seals occur at the center line of the package.

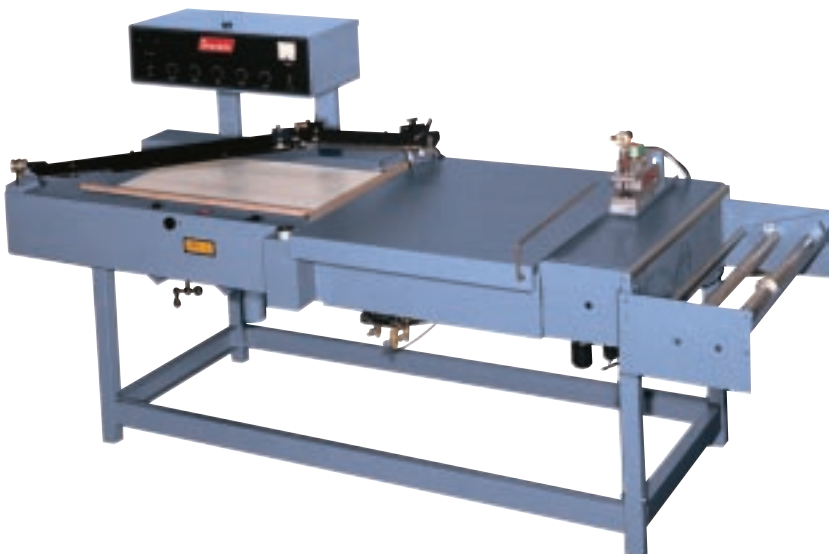
Model S-23 sealers can be converted to Models S-23A or S-23B Semi-Automatic Sealers at any time. Model S-23A includes a timer-controlled, air magnetic latching mechanism that clamps the sealing arm closed and holds it while the seal is being made. Model S-23B operates the same as Model S-23A but also includes an automatic package ejector.

Model S-24 L-Sealer

- > **Semi-Automatic Operation**
- > **Sealer Size – 21"W x 33"L
(40"L available)**
- > **Speed – 15 to 20 packages per minute**
- > **Floor Space – 3 1/2' x 8 1/2' approximately**

The Model S-24 L-Sealer features a simple design and quality components to ensure that uniformly strong seals are made every time. Centerfolded film is dispensed from a surface unwind unit and the folds of the film are separated so that the layers pass over and under the loading table. In operation, the operator inserts the product into the film and moves it onto the discharge conveyor. The operator presses the "SEAL" buttons, causing the sealing arm to lower to make the seal. The discharge conveyor removes the package to the shrink tunnel when the seal is complete.

The Model S-24 can be converted to an S-24B or S-24C machine in the field.



Our dedicated force of skilled craftsmen take pride in producing superior packaging machines.



Model S-23C High Production L-Sealer

- > **Semi-Automatic Operation**
- > **Sealer Size – 12 1/2"W x 17"L**
(19"L available)
- > **Speed – 20 to 30 packages per minute**
- > **Floor Space – 4' x 4' approximately**

The Model S-23C is a compact, productive machine with speeds approaching those of fully automatic L-Sealers. Centerfolded film is dispensed from a power unwind, over and through the film inverting head which turns the film inside out and leaves an opening for product insertion. Operation is simple. . . with one smooth motion, the operator inserts the product into the film and onto the seal area and then presses the "SEAL" buttons. Film unwind, sealing, discharge conveyor, and hole punch are all automatic. The Model S-23C is ideal for applications that require straight-line product flow and high production at a lower cost than fully automatic equipment. A package ejector can be installed in place of the discharge conveyor.



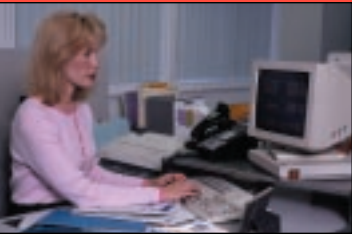
Model S-3CDA, USDA Approved, High Production L-Sealer

- > **Semi-Automatic Operation**
- > **Sealer Size – 12 1/2"W x 17" L**
(17"W and 19"L available)
- > **Speed – 20 to 30 packages per minute**
- > **Floor Space – 4' x 4' approximately**

The Model S-3CDA was designed specifically to meet the exacting requirements of food processing plants and is USDA approved for that use. The basic construction is stainless steel for easy wipe-down cleaning. Electrical components are shielded to protect them from overspray when steam cleaning the processing area.

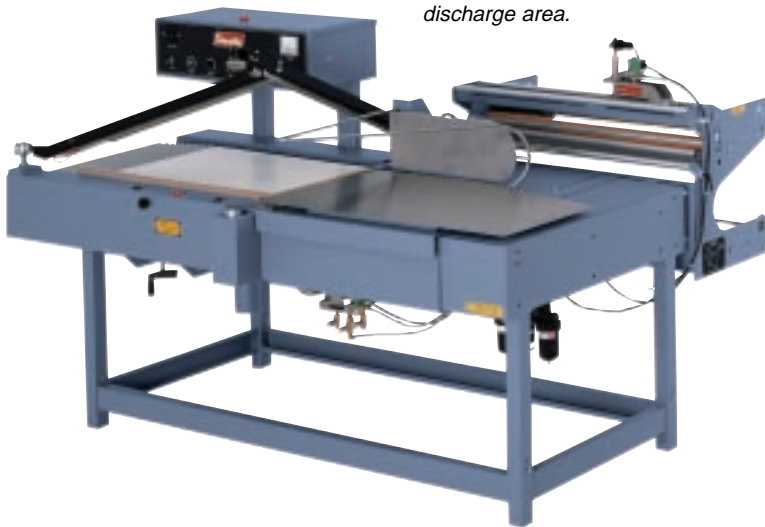
Centerfolded film is dispensed from a power unwind and passes over and through a film inverting head which turns the film inside out, leaving an opening for product insertion. With one smooth motion, the operator inserts the product into the film and onto the sealing area, and then presses the "SEAL" buttons. Film unwind, sealing head, sealing cycle and product discharge are fully automatic.





All parts orders are processed using our internal computer order entry system.

The Model S-24C is the same as the Model S-24B (shown below) except that it includes a package guide and stop in the discharge area.



Models S-24B and S-24C High Production L-Sealers

- > Semi-Automatic Operation
- > Sealer Size – 15"W x 33"L
(20"W and 40"L available)
- > Speed – 20 to 30 packages per minute
- > Floor Space – 4 1/2' x 7' approximately

The Model S-24B is built for applications that require packaging line speeds approaching those of fully automatic sealers, but where equipment cost is a factor or where the product does not lend itself to automatic handling. Centerfolded film is dispensed from an EZ load unwind over and through the film inverting head, leaving an opening into which the product can be inserted. With one smooth motion, the operator inserts the product into the film and onto the sealing area, and then presses the "SEAL" buttons. The seal is made and then the package is automatically conveyed to the shrink tunnel. The Model S-24B is available with line operation feeding from left to right.

Model S-5CL Large Capacity, High Production L-Sealer

- > Semi-Automatic Operation
- > Sealer Size – 30"W x 54"L
- > Speed – 10 to 20 packages per minute
- > Floor Space – 5 1/2' x 9 1/2' approximately

The Model S-5CL (not shown) is similar to the S-24C except that it is designed especially to shrinkwrap extra large packages and extra heavy packages.



Model S-26 High Production L-Sealer

- > Semi-Automatic Operation
- > Sealer Size – 16"W x 24"L x 1/8"H
10"W x 16"L x 8"H
- > Speed – 20 to 25 packages per minute
- > Floor Space – 4' x 5' approximately

The Model S-26 L-Sealer is an all new design incorporating the latest concepts in shrink packaging machinery technology. The EZ load film unwind accepts film on surface rollers, eliminating the need for film chucks. Seal jaws, pivoted at the discharge end of the machine, provide maximum opening height to enable higher profile products to be wrapped. Hot knife sealing jaws are used for improved reliability, and the film inverting head and loading table adjust easily for fast changeover.

In operation, centerfolded film is drawn from the supply roll over an opener bar and through a pin perforator. The film then passes over and through a film inverting head, which creates an opening into which product can be inserted. With one smooth motion, the operator inserts product into the film and moves it into the sealing area. The operator then touches two seal buttons, causing the sealing arm to close. The sealing cycle is completed automatically, and as the seal arm raises, the package is conveyed to the shrink tunnel.

*When you call Shanklin,
you will always get a friendly
voice that will direct your call.*



Models A-22 and A-23 Automatic L-Sealers

- > **Fully Automatic Operation**
- > **Sealer Size – A-22: 15"W x 33"L (18"W available)
A-23: 12 1/2"W x 17"L (19"L available)**
- > **Speed – A-22: 30 to 35 packages per minute
A-23: Up to 40 packages per minute**
- > **Floor Space – A-22: 5' x 9' approximately
A-23: 4 1/2' x 5 1/2' approximately**

The Models A-22 and A-23 are versatile, fully automatic machines that feature straight-line product flow. Centerfolded film is dispensed from a power unwind to the film inverting head which turns the film inside out, leaving an opening for product insertion. With each machine cycle, the infeed conveyor brings the product to the insertion arm and stops. The insertion arm advances the product into the film and onto the discharge conveyor, and then returns to receive another product. The sealing arm closes to seal the package. When the seal is completed, the arm opens and the discharge conveyor carries the package to the shrink tunnel. Meanwhile, the next product is being fed into the insertion and sealing stations of the machine automatically. The machine does not require a continuous flow of product for proper operation. Changeover takes only minutes.



Model M-22 Automatic Multipacker

- > **Fully Automatic Operation**
- > **Maximum Bundle Size – 15"W x 15"L x 8"H
(15"W x 24"L x 8"H multi-stroke)**
- > **Speed – 20 to 25 bundles per minute**
- > **Floor Space – 5 1/2' x 8 1/2'***
***Exclusive of infeed conveyors**

The Model M-22 Automatic Multipacker consists of a specially modified S-24C High Production L-Sealer on which an automatic right-angle accumulating infeed has been installed for orienting and grouping a series of products.

The basic components of the infeed are a product feeding conveyor, an accumulating conveyor, and a specialized right angle inserting unit for feeding the grouping of products into the sealing areas. Available accessories include right-angle transfer mechanisms, product up-enders, product up-stackers, and special product accumulating conveyors.

>Automatic Multipacker





Computer controlled machine tools assure the production of uniformly high quality parts.



Model A-26A Automatic L-Sealer

- > Conveyor Fed Automatic Operation
- > Positive Film Feed
- > Sealer Size – 15"W x 21"L
- > Maximum Product Height – 5 1/2"
- > Speed* – Up to 35 packages per minute (standard)
Up to 45 packages per minute (with high speed gearing)
- *Depending on product and application
- > Floor Space – 4 1/2' x 5 1/2' approximately

The Model A-26A Automatic L-Sealer was developed for those applications that require a positive film feed to draw product into the seal area. Such applications include flexible products that do not have sufficient stiffness to advance the film and stacked product such as sheets of paper.

Product to be wrapped is fed into the machine on the infeed conveyor, and as it transfers to the seal jaw area, the discharge conveyor and the film advance mechanism automatically start to draw the film and the product into the sealing area. Once the product is in place, both conveyors stop, and the sealing mechanism makes its seal. When the seal jaws open, the discharge conveyor carries product off to a shrink tunnel while the infeed conveyor feeds new product into the seal area.

Models A-26ADA and A-27ADA USDA Approved Automatic L-Sealers

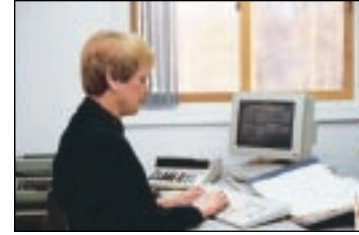
- > Conveyor Fed Automatic Operation
- > Positive Film Feed
- > Sealer Size – A-26ADA: 15"W x 21"L
A-27ADA: 21"W x 33"L
- > Maximum Product Height – A-26ADA: 5 1/2"
A-27ADA: 8"
- > Speed* – Up to 35 packages per minute (standard)
Up to 45 packages per minute (with high speed gearing)
- *Depending on product and application
- > Floor Space – A-26ADA: 4 1/2' x 5 1/2' approximately
A-27ADA: 5' x 7' approximately



The Models A-26ADA and A-27ADA were designed specifically to meet the exacting requirements of food processing plants, and are USDA approved for that use. The basic construction is stainless steel for easy wipe-down cleaning. The infeed conveyor and film forming head can be easily disassembled and reassembled without the use of tools to permit thorough wash-down of infeed parts separate from the wrapper.

The operation of the A-26ADA and A-27ADA is essentially identical to the industrial Models A-26A and A-27A with the added benefit of being constructed for use in conditions requiring stainless steel construction or USDA approval.

Information processing and retrieval are instantaneous, thanks to our Manufacturing Systems Computer.



Model A-27A Automatic L-Sealer

- > **Fully Automatic Operation**
- > **Sealer Size – 21"W x 33"L**
(3"W x 3"L min.)
- > **Maximum Product Height – 8"**
- > **Speed* – Up to 35 packages per minute (standard)**
Up to 45 packages per minute (with high speed gearing)

**Depending on product and application*

- > **Floor Space – 5' x 7' approximately**

The Model A-27A Automatic L-Sealer answers the need for a compact, versatile shrink wrapper with gentle product feed and straight-line product flow. The Model A-27A power advances the wrapping film while feeding product into the machine.

Product is conveyed into the machine through a film inverting head where it is wrapped in plastic film. Passing into the sealing area, it starts the discharge conveyor and film advance system, drawing the film and product into the sealing area. Once the product is correctly located in the sealing area, the conveyor and the sealing jaws make the seal. After sealing, the product is conveyed away to a shrink tunnel while the infeed conveyor feeds new product into the machine.

The Model A-27A features easy product size changeover.



Model A-28A Automatic L-Sealer

- > **Fully Automatic Operation**
- > **Sealer Size – 31"W x 43"L**
(10"W x 7½"L min.)
- > **Maximum Product Height – 10"**
- > **Speed* – Up to 35 packages per minute (standard)**
Up to 45 packages per minute (with high speed gearing)

**Depending on product and application*

- > **Floor Space – 6' x 9' approximately**

The Model A-28A Automatic L-Sealer with adjustable height seal jaws was designed for people who always had some products that were just too large to fit through the Model A-27A. In addition to being larger in size to wrap larger product, the machine has been built to wrap much heavier product than most Automatic L-Sealers can handle. This is accomplished by incorporating heavy-duty conveyors, motors, and drive components throughout the machine.

The operation of the A-28A is essentially identical to that of the Model A-27A, except that the A-28A can wrap those large and/or heavy products that have always been a problem up until now. Packaging speeds will be dependent upon size and, to some extent, weights of products.





In-stock parts are shipped within 24 hours A.R.O. from our extensive inventory.



Model CF-1 Compact Form-Fill-Seal Wrapper

- > Fully Automatic Operation
- > Package Size* – 2"W x 3"L min. to 20"W x 10"H x 120"L max.**

***Width plus height cannot exceed 22 1/2"**

****Product longer than 36" requires special conveyors**

- > Speed – Up to 30 packages per minute
- > Floor Space – 5' x 7' approximately

The Model CF-1 is an ultra compact Form-Fill-Seal machine that combines the automatic package length adjustment and economical selvage trim of a Form-Fill-Seal machine with the compact size and versatility of an Automatic L-Sealer. A side sealer seals the edges of the film while advancing the film through the machine. Independent cross seal jaws perform the transverse seal and cut. A Hot Air Side Sealer (optional extra) is recommended for strong, stick-free seals when using LDPE films.

The Model CF-1 feeds product through the film inverting head, where it is surrounded by film. As it advances into the seal area, the wrapping film is pulled into the machine by the side sealer, enabling even flexible product to be wrapped. An optional retractable infeed nose roller on the discharge conveyor provides smooth product transfer onto the seal area where the transverse seal is made.

Models CF-3 and CF-5 Form-Fill-Seal Wrappers

- > Fully Automatic Operation
- > Package Size – CF-3: 11"W x 7 1/2"L min. to 30"W x 10"H x 120"L max.
CF-5: 14"W x 7 1/2"L min. to 40"W x 11"H x 120"L max.
- > Speed – Up to 30 packages per minute
- > Floor Space – CF-3: 5 1/2' x 8 1/2' approximately
CF-5: 6 1/2' x 12' approximately

The Models CF-3 and CF-5 Form-Fill-Seal Wrappers were designed for people who always had some products that were just too large to fit through the Model CF-1. In addition to being larger in size to wrap much larger product, the machine has been built to wrap much heavier product than most Form-Fill-Seal Wrappers can handle. This is accomplished by incorporating heavy-duty conveyors, motors, and drive components throughout the machine.

The operation of the CF-3 and CF-5 is essentially identical to that of the Model CF-1, except that the CF-3 and CF-5 can wrap those large and/or heavy products that have always been a problem up until now. Packaging speeds will be dependent upon size and, to some extent, weight of products.



Most of the specialized parts that go into Shanklin machines are produced in our own factory.



Model Triumph Form-Fill-Seal Wrapper

- > **Fully Automatic Operation**
- > **Package Size*** – 2"W x 4"L x 1/2"H min. to 15"W x 25 1/2"L x 5"H max.
 - *Width plus height cannot exceed 17"
- > **Speed** – Up to 50 packages/min. or 60 linear ft/min.
- > **Floor Space** – 5' x 8' approximately

The Triumph is a continuous motion wrapper with speeds similar to our "F" line of wrappers. But unlike the "F" machines, the Triumph maintains the product flow direction of the L-Sealers (it can be operated from either side so that the customer does not have to change their line to a left to right flow).

The machine generates product spacing on the fly. Product is presented to the machine in a random fashion on a belted conveyor. The machine creates product spacing and advances the product into the film. The film is longitudinally sealed with a side sealer, and then cross-sealed downstream with a traveling end seal mechanism. The machine comes standard with an adjustable inverting head, adjustable seal heights, and an adjustable infeed conveyor to compensate for different package widths. The variable speed conveyors and all seal temperatures are universally controlled through the PLC via the color touch-screen control panel. By placing all of these parameters within the control of the PLC, the machine is capable of storing all key setups for up to 25 product/film recipes.



Color Touch Screen



The color touch screen includes controls for speed, jaw temperatures, side seal temperatures, stop, start, slow run, spacing, dwell, diagnostics and much more.

Swing Arm Controls

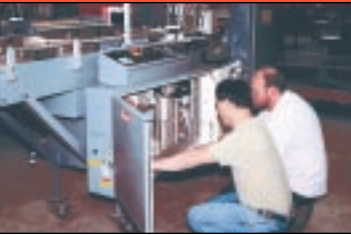


The control panel is mounted on a swing arm that allows for operator interface around the perimeter of the machine. The panel also tilts for viewing angle adjustments.

Recessed Servage Winder



The recessed servage winder places the servage roll conveniently within the structure of the machine.



Every machine is checked out and run prior to shipment by one of our top-rated mechanics.



Model F-1



Model F-5

Models F-1, F-5 and F-7 Form-Fill-Seal Wrappers

> Fully Automatic Operation

> **Package Size** – F-1: 1/2"W x 4"L x 1/8"H min.* to 16"W x 48"L x 6"H max.** (96"L to 144"L available with infeed and discharge conveyor modifications)

F-5: 1/2"W x 3"L x 1/8"H min.* to 16"W x 48"L x 6"H max.**

F-7: 4"W x 4"L x 1/8"H min.* to 26"W x 48"L x 10"H max.***

*May require some modifications

**Maximum circumference cannot exceed 38"

***Maximum circumference cannot exceed 58"

> **Speed** – F-1: Up to 50 packages per minute or 60 linear feet per minute

F-5: Up to 75 packages per minute or 90 linear feet per minute

F-7: Up to 50 packages per minute or 90 linear feet per minute

> **Floor Space** – F-1: 4' x 11' approximately

F-5: 4' x 11' approximately

F-7: 5' x 15' approximately

The Models F-1, F-5 and F-7 Form-Fill-Seal Wrappers wrap product with neat welded bead seals on three sides of the package and no overlap across the bottom. A Shanklin Side Sealer makes the longitudinal seal, and a set of traveling end seal jaws make the transverse seals. The transverse seal jaws are either hot wire or hot knife on the Models F-1 and F-5, and hot knife only on the Model F-7. A Hot Air Side Sealer option is available for sealing LDPE film. All three models use readily available centerfolded film (an optional Centerfolder is available). The film inverting head will accept a range of product sizes, and film width is generally not critical. An adjustable inverting head is available to further speed up size changeover. All three models utilize a programmable controller with a user-friendly touch-screen control panel for ease of operation and self-diagnostics.

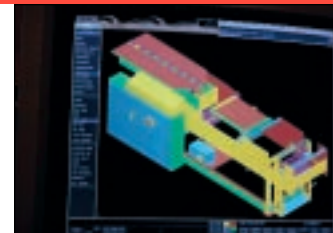
The Models F-1 and F-7 have a belt infeed that accepts product intermittently delivered and randomly spaced, and establishes the correct spacing in the machine by controlling the infeed belts. Product travel through the machine is in a straight line.

The Model F-5 is equipped with a flighted infeed conveyor (quick change flight lugs are optional) that allows a somewhat higher packaging speed than the F-1 and F-7. Product travel through the machine is continuous. In-line and right-angle feeding systems are available for feeding the flighted conveyor automatically. An optional Harmonic Infeed (page 19) can also produce correct product spacing on the F-5 for many applications.

F-1 and F-5 available in USDA approved models

F-1 and F-5 available in stainless steel construction

Our state-of-the-art CAD system turns engineering concepts into color visualizations.



Models F-3 and F-4 Form-Fill-Seal Wrappers

- > **Fully Automatic Operation**
- > **Package Size – F-3: 1½"W x 4"L x ¾"H min. to 16"W x 48"L x 6"H max.* (96"L to 144"L available with infeed and discharge conveyor modifications)**
- F-4: 1½"W x 3"L x ¾"H min. to 16"W x 48"L x 6"H max.***
- *Maximum circumference cannot exceed 38"**
- > **Speed – F-3: Up to 50 packages/min. or 60 linear ft/min.**
- F-4: Up to 75 packages/min. or 90 linear ft/min.**
- > **Floor Space – F-3: 4' x 11' approximately**
- F-4: 4' x 10½' approximately**

The Models F-3 and F-4 Form-Fill-Seal Wrappers wrap products in plastic film automatically, and the resulting packages have trim seals on the ends of the packages and a neat overlap seal on the bottoms. The machine uses flat film and there is no selvage trim. Static seal is standard for the bottom overlap seal, and a heat seal is available as an option. A set of traveling end seal jaws make the transverse seals. Hot wire and hot knife end sealing systems are available. Both machines utilize a programmable controller with a user-friendly touch-screen control panel for ease of operation and self-diagnostics.

The Model F-3 has a belt infeed that accepts product intermittently delivered and randomly spaced, and establishes the correct spacing in the machine by controlling the infeed belts. Product travel through the machine is in a straight line.

The Model F-4 is equipped with a flighted infeed conveyor (quick change flight lugs are optional) that allows a somewhat higher packaging speed than the F-3. Product travel through the machine is continuous. In-line and right-angle feeding systems are available for feeding the flighted conveyor automatically. An optional Harmonic Infeed (page 19) can also produce correct product spacing on the F-4 for many applications.

Available in USDA approved models

Available in stainless steel construction



Model F-3



Model F-4



Distributors can take advantage of technical seminars held frequently at our plant.



Models HS-1, HS-3 and HS-7 High Speed Automatic Wrappers

> High Speed Fully Automatic Operation

> **Package Size – HS-1:** 1/2"W x 3"L x 1/8"H min. to 16"W x 60"L x 6"H max.*

HS-3: 1/2"W x 2"L x 1/8"H min. to 16"W x 15"L x 3"H max.*

HS-7: 4"W x 3"L x 1/8"H min. to 20"W x 60"L x 6"H max.**

*Maximum circumference cannot exceed 38"

**Maximum circumference cannot exceed 42"

> **Speed – HS-1:** Up to 100 packages/min. or 120 linear ft./min.

HS-3: Up to 200 packages/min. depending upon product and application

HS-7: Up to 100 packages/min. or 120 linear ft./min.

> Floor Space – 5' x 11 1/2' approximately

The Shanklin Models HS-1, HS-3 and HS-7 High Speed Wrappers wrap products in plastic film automatically at high speeds. The resulting packages have neat trim seals on three sides of the packages.

All three models are similar in appearance and function. The HS-3 with its high speed gearing can run much faster than the HS-1 and HS-7, but its package size capability is slightly more limited.

These models are highly versatile and will run equally well at both high and low speeds, and the wrapping speed can be adjusted from the control console to match the speed of the production line. A programmable controller with a user-friendly touch-screen control panel promotes ease of operation and self-diagnostics.

Shanklin High Speed Wrappers are easy to operate, easy to maintain, and easy to change over from one size to another. The HS-1, HS-3, and HS-7 use readily available centerfolded film (an optional Centerfolder is available). The film inverting head will accept a range of product sizes, and film width is generally not critical. An adjustable inverting head is available to facilitate changeover. Quick change flight lugs on the infeed are optional.

A wide range of automatic product feeding systems is available for any of the High Speed Wrappers. These include the Harmonic Infeed, the Synchronic Infeed, the Sensor Belt Infeed, and the Timing Screw Infeed. A Wide Flight Bar Infeed (see page 20) is recommended for multi-packing applications. Consult factory for details.

HS-1 and HS-3 available is USDA approved models

Whenever possible, we take a hands-on approach to new product applications.



Models HS-2 and HS-4 High Speed Automatic Wrappers

- > **High Speed Fully Automatic Operation**
- > **Package Size*** – HS-2: 2"W x 3"L x $\frac{3}{8}$ "H min. to 16"W x 60"L x 6"H max.
HS-4: 2"W x 2"L x $\frac{3}{8}$ "H min. to 16"W x 15"L x 3"H max.
***Maximum circumference cannot exceed 38"**
- > **Speed** – HS-2: Up to 100 packages/min. or 120 linear ft/min.
HS-4: Up to 200 packages/min. depending upon product and application
- > **Floor Space** – 4 $\frac{1}{2}$ ' x 11 $\frac{1}{2}$ ' approximately



The Models HS-2 and HS-4 High Speed Wrappers wrap products in plastic film automatically at high speeds. The resulting packages have trim seals on the ends of the packages and a neat overlap seam on the bottoms. The machine uses flat film and there is no selvage trim. Static seal is standard for the bottom overlap seam, and a heat seal is available as an option. Hot wire and hot knife end sealing systems are available.

The Models HS-2 and HS-4 are similar in appearance and function. The HS-4 with its high speed gearing can run much faster than the HS-2, but its package size capability is slightly more limited.

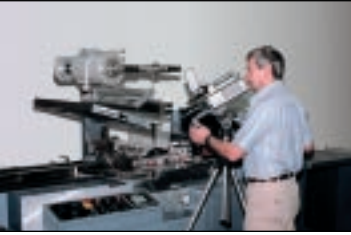
Both models are highly versatile and will run equally well at both high and low speeds, and the wrapping speed can be adjusted from the control console to match the speed of the production line. A programmable controller with a user-friendly touch-screen control panel promotes ease of operation and self-diagnostics.

Shanklin High Speed Wrappers are easy to operate, easy to maintain, and easy to change over from one size to another. Quick change forming heads are standard. Quick change flight lugs on the infeed are optional.

A wide range of automatic product feeding systems is available for any of the High Speed Wrappers. These include the Harmonic Infeed, the Synchronic Infeed, the Sensor Belt Infeed, and the Timing Screw Infeed. A Wide Flight Bar Infeed (see page 20) is recommended for multi-packing applications. Consult factory for details.



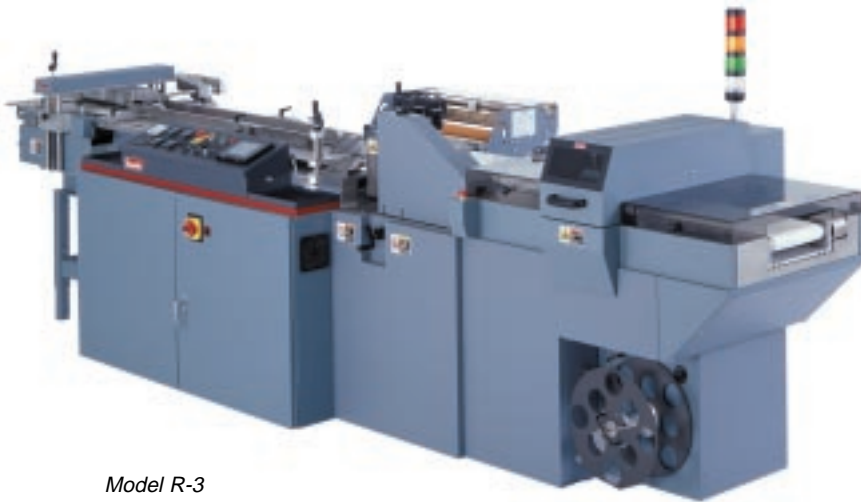
Also available in USDA approved models



Videotapes can show you our machines running product without leaving your office.



Model R-2



Model R-3
Shown with optional
Synchronic Infeed

Models R-2 and R-3 High Speed Rotary Wrappers

- > **High Speed Fully Automatic Operation**
- > **Package Size*** – R-2: 2"W x 3"L x 1/16"H min. to 9 1/2"W x 15"L x 2 1/2"H max.
R-3: 2"W x 3"L x 1/16"H min. to 10"W x 18"L x 2 1/2"H max.
- *Width and height combination cannot exceed 10 1/2" on the R-2 and 11" on the R-3
- > **Speed** – R-2: Up to 250 packages/min or 200 linear ft./min.
R-3: Up to 300 packages/min or 200 linear ft./min.
- > **Floor Space** – R-2: 42"W x 115"L x 90"H
R-3: 57"W x 150"L x 65"H

The Models R-2 and R-3 High Speed Rotary Wrappers wrap product in plastic film automatically at exceptionally high speeds. Both models offer a hot knife end sealing system.

Packages run on the R-2 have a trim seal on the ends of the packages and a neat overlap seam on the bottom. The machine uses flat film and there is no selvage trim. Static seal is standard for the bottom overlap seam, and a Thermal seal is available as an option. With its overhead unwind, mechanical gearing, and rotary end seal, the R-2 offers a smaller footprint machine that can run high speeds.

Packages run on the R-3 have a trim seal on three sides of the package and no overlap seams on the bottom. With its intelligent servo control and rotary end seal, the R-3 offers a feature-packed quick changeover machine that can run high speeds. Features include "no product/no bag" and "no gap/no seal" detection and product set up aids.

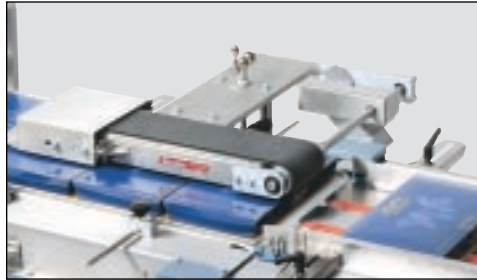
Both models are highly versatile and will run equally well at both high and low speeds. The wrapping speed can be adjusted from the control console to match the speed of the production line. A programmable controller with a user-friendly touch-screen control panel promotes ease of operation and self-diagnostics.

Shanklin High Speed Rotary Wrappers are easy to operate, easy to maintain, and easy to change over from one size to another. Quick change forming heads are standard on the R-2, while the R-3 inverting head is easily adjustable and will accept a range of product sizes. Quick change flight lugs on the infeed are optional.

A wide range of automatic product feeding systems are available for both of these High Speed Rotary Wrappers. These include the Harmonic Infeed, the Synchronic Infeed and others. Consult factory for details.

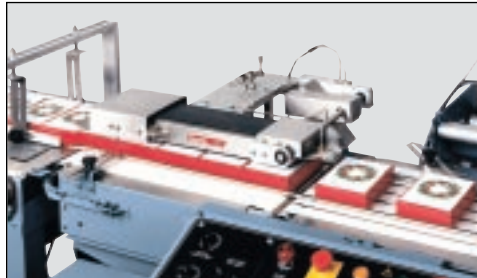
Synchronic Infeed

The Shanklin Synchronic Infeed uses a control conveyor and infeed conveyor similar to the Harmonic Infeed, described below, but it is designed to feed any Shanklin High Speed Automatic Wrapper. The flighted conveyor of the machine is retained, and a sophisticated control system senses the location of the infeeding product and adjusts it automatically so that the product will be deposited between the flights of the wrapping machine's infeed conveyor. Speeds exceeding 200 products/min. have been achieved with this infeed.



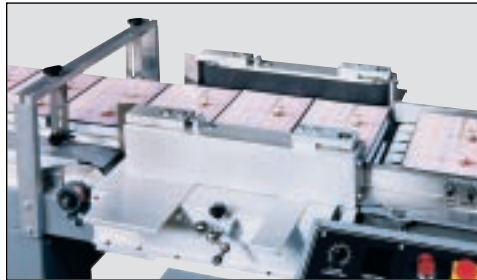
Harmonic Infeed

The Shanklin Harmonic Infeed is installed on Shanklin HS-1, HS-2, F-4 and F-5 Wrappers in place of the flighted infeed conveyor. The Harmonic Infeed feeds product at the proper rate to produce the proper spacing between products. Photocell controlled end seal jaws seal the film between the packages automatically. A special Shanklin Infeed Conveyor (recommended accessory) feeds product into the Harmonic Infeed.



Harmonic Infeed – Side Belt

The Shanklin Harmonic Infeed is an optional side belt model for applications that cannot be controlled by the overhead belt on the standard model. This same configuration is available as an option for the Synchronic Infeed.



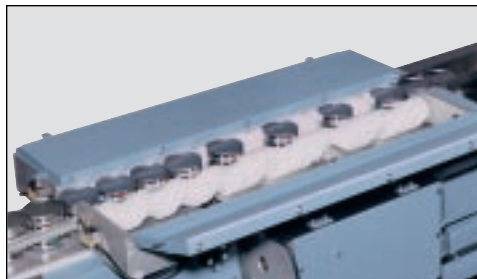
Sensor Belt Infeed

The Shanklin Sensor Belt Infeed is a series of belt conveyors that are driven by servo motors. Photocells sense the position of products as they are transported into the wrapping machine, and a computer adjusts the speeds of the belts to provide correct product spacing and placement. The Sensor Belt Infeed is ideal for feeding soft or fragile products that cannot be touched on the sides or the top.



Timing Screw Infeed

The Shanklin Timing Screw Infeed can be used to feed product into the flighted infeed conveyor of any Shanklin High Speed Wrapping Machine. It is particularly suited for round product (cans, jars, etc.) or product with rounded corners.

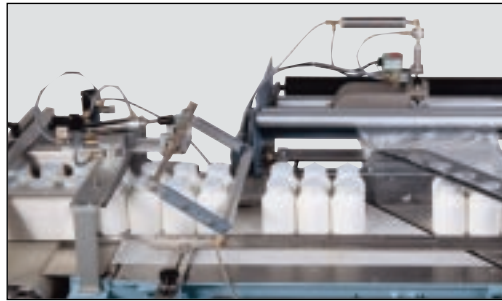


As the speeds of horizontal Form-Fill-Seal machines increase, the mechanism that feeds the products into the wrapping machine becomes an increasingly important component of a successful packaging line. The infeeds shown here feed product into Shanklin Packaging Machines while maintaining a truly continuous flow of product to and through the machine. The line of product waiting to be wrapped is free from the harsh start-stop motion associated with many product feed systems, and product flow is smooth and in a straight line.

See page 20 for Multi-Packing Infeeds



Our assembly technicians will follow your machine from start to final checkout.



Shanklin Corporation offers a number of infeeds that accumulate and/or collate and feed groupings of product into Shanklin Shrink Packaging Machines. Although some of the infeeds are quite specialized, others can be used on a variety of products. Some of the more frequently used Multi-Packing Infeeds are described below.

- > **Harmonic Infeed (see page 19)** – Factory modifications to the Harmonic Infeed permit groupings of product to be fed either intermittently or continuously.
- > **Synchronic Infeed (see page 19)** – The sophisticated control system of the Synchronic Infeed permits feeding of multiple products into a single flight space for in-line multi-packing.
- > **F-1M and F-3M Multi-Packing Infeeds (shown at top left)** Use alternating stops on the infeed conveyors to accumulate groupings of product and then release the groupings automatically into the wrapping machine.
- > **Timing Screw Infeed (see page 19)** – Can be configured to accumulate groupings of product for synchronized delivery to the wrapping machine.
- > **Wide Flight Bar Infeed (shown at left)** – Where maximum versatility with minimum changeover time is a primary concern, a manually fed infeed conveyor is often used. The Shanklin Wide Flight Bar Infeed is ideal for this purpose. Product is placed between the flight bars and is carried into the wrapper automatically. Adjustable side guides are quickly set for the width of the products. This infeed is also designed to feed single products and irregularly shaped products.

> Shrink Tunnels



SHANKLIN Shrink Tunnels are precision machines, quality built for highest performance and dependability. The air velocity and temperature are carefully controlled to favor the wrapping film, and they are maintained uniformly throughout the length and width of the tunnel. When the packages emerge, the film around them has been completely shrunk to a neat, uniform appearance.

Model T-6XL Shrink Tunnel

- > **Tunnel Passage** – 7"H x 18"W x 30"L (11"H available)
- > **Conveyor Speeds** – Variable 15 to 66 ft/min.
- > **Conveyor Height** – Adjustable telescoping legs 28" to 40"
- > **Floor Space** – 3' x 5'

The Model T-6XL is a high performance shrink tunnel, ruggedly built, yet available at moderate cost. Operation is simple: set temperature, set conveyor speed, set variable air velocity control, and the Model T-6XL is ready to perform. Control settings are held without need for readjustment.

**Also available in stainless steel construction
See page 22 for Model T-6H**

Our manufacturing department processes many truckloads of raw steel in various forms throughout the year.



Model T-7XL Shrink Tunnel

- > **Tunnel Passage – 4" to 8"H (adjustable)**
22"W x 42"L (12"H available)
- > **Conveyor Speeds – Variable 15 to 120 ft/min.**
- > **Conveyor Height – Adjustable telescoping legs**
28" to 40"
- > **Floor Space – 3' x 5'**

The Model T-7XL Shrink Tunnel is the most powerful shrink tunnel of its size, and it has long been the "workhorse" of the industry. Shrinking is accomplished by high velocity hot air delivered to the package in an optimum pattern. All components of the machine are ruggedly designed for maximum reliability.

The Model T-7XL features an externally adjustable tunnel ceiling height to permit optimum location of the top air jets against the package. The main air velocity in the tunnel is fully adjustable, and the velocity of the top air jets is independently adjustable to facilitate running open top boxes and trays, etc. To operate, set the controls for proper temperature, conveyor speed, air velocity and ceiling height. The Model T-7XL is now ready to run.



Also available in stainless steel construction
See page 22 for Models T-7F and T-7H

Models T-8, T-9 and T-11 Large Capacity Shrink Tunnels

- > **Tunnel Passage – T-8: 12"H x 28"W x 47"L**
(16" or 20"H available)
- T-9: 6"H x 36"W x 47"L
(14" or 20"H available)
- T-11: 8"H x 48"W x 47"L
- > **Conveyor Speeds – Variable 15 to 100 ft/min.**
- > **Floor Space – T-8: 3½' x 6½'**
- T-9: 4' x 6½'
- T-11: 5' x 6½'

The Shanklin Models T-8, T-9 and T-11 Large Capacity Shrink Tunnels are designed to handle those applications where packages are too large or wide to fit through a T-7 series tunnel. The T-9 is especially suited for picture frames, rolls running transversely, and for other wide, low profile product. The air velocity and temperature are easily adjustable to favor the wrapping film, and temperature control is uniform throughout the tunnel. The carefully engineered hot air circulation pattern produces a tightly wrapped package.



The standard machine is equipped with a mesh belt, but a live roller conveyor is recommended for wide, heavy product and rolls wrapped in polyolefin or PVC shrink films.



Quality and design of our shrink tunnels provide for outstanding final package appearance.



The Shanklin Shrink Tunnels shown on this page are modifications of our T-6XL and T-7XL tunnels. By combining the features of one shrink tunnel with those of another, we have created these popular models.

Model T-6H Shrink Tunnel

- > **Tunnel Passage – 10"H x 18"W x 30"L**
- > **Conveyor Speeds – Variable 15 to 66 ft/min.**
- > **Conveyor Height – 28" to 40"**
- > **Floor Space – 3' x 5'**

The Shanklin Model T-6H Shrink Tunnel is similar to the Model T-6XL shown on page 20, except that the opening height is 10" to permit the shrinking of higher profile packages. This model is ideal for use with any of the L-Sealers.

Also available in stainless steel construction

Model T-7F Shrink Tunnel

- > **Tunnel Passage – 8"H x 22"W x 42"L**
- > **Conveyor Speeds – Variable 15 to 120 ft/min.**
- > **Conveyor Height – 28" to 40"**
- > **Floor Space – 3' x 6 1/2'**

The Shanklin Model T-7F Shrink Tunnel is similar to the Model T-7XL (see page 21) except that the height of the tunnel ceiling and top air jets is fixed, the front mounted control box is standard, and a T-6XL conveyor drive is used in place of the heavy-duty conveyor of the T-7XL. The T-7F is less costly to build than the T-7XL and thus it is a popular tunnel for many applications where the fixed height top air and standard duty conveyor will serve the application.

Model T-7H Shrink Tunnel

- > **Tunnel Passage – 12"H x 22"W x 42"L**
- > **Conveyor Speeds – Variable 15 to 120 ft/min.**
- > **Conveyor Height – 28" to 40"**
- > **Floor Space – 3' x 6 1/2'**

The Shanklin Model T-7H Shrink Tunnel is similar to the Model T-7XL (see page 21) except that the tunnel opening is increased to 12", does not include the adjustable height ceiling, and is available with a front mounted control box standard. (Left or right hand mounted control box available.) The Model T-7H with its powerful hot air system and its increased opening produces excellent shrinks on medium and high profile products.

Also available in stainless steel construction

A CNC vertical milling center receives final programming from one of our highly skilled machinists.



Model T-71 High Speed Shrink Tunnel

- > Tunnel Passage – 10"H x 22"W x 60"L
- > Conveyor Speeds – Variable 25 to 150 ft/min.
- > Conveyor Height – 28" to 40"
- > Floor Space – 3' x 8' approximately

The Model T-71 High Speed Shrink Tunnel was designed to satisfy applications that require greater throughput than the Model T-7XL but not quite that of the Model T-72 Dual Chamber Shrink Tunnel. This Model has a T-7 style single chamber tunnel but with a 60" long chamber to facilitate more shrinking capability at higher speeds. All components of the machine are ruggedly designed for maximum reliability.

This tunnel, with its powerful hot air system and its increased opening, is a great match with many of the F-1, F-3, F-4, F-5 and Triumph applications.



Shown with optional side viewing window.

Models T-62, T-72, T-82 and T-92 High Speed Shrink Tunnels

- > Tunnel Passage – T-62: 10"H x 18"W x 61"L
T-72: 8"H x 22"W x 84"L
T-82: 12"H x 28"W x 95"L
T-92: 14"H x 36"W x 95"L

(two separate shrinking chambers)

- > Conveyor Speeds – Variable 25 to 150 ft/min.
- > Floor Space (approximately)

T-62: 3' x 9'	T-82: 3 1/2' x 10 1/2'
T-72: 3 1/2' x 11'	T-92: 4' x 10 1/2'

These high speed, dual-chamber tunnels are specially designed to solve the most difficult shrink problems, such as keeping up with high speed automatic wrapping machines and shrink wrapping irregular-shaped products. The tunnels are equipped with proper heaters, air-flow patterns, and sufficient chamber length to deliver maximum shrinkage from most shrink films on the market. Air temperature and velocity in each chamber is independently controllable to permit shrinking conditions to be customized to each type of package being run.



T-62 and T-72 available in stainless steel construction



Customized machines are manufactured on a production basis.



Model B-2 Modular Sleeve Wrapper

- > Fully Automatic or Semi-Automatic Operation
- > Capacity – 15"H x 30"W film
(20"H and 40"W available)
- > Speed – 15 to 25 packages per minute
- > Floor Space – 3½' x 6' approximately

The Model B-2 is a versatile machine for bundling products or clusters of products in an open-ended envelope of shrink film. When the enveloped product enters the shrink tunnel, the film is drawn tightly around the product and the open ends of the sleeve close to a fraction of their original size.

Since sleeve wrapping applications are varied, the Model B-2 is modular in concept to permit customizing the machine to the application. The Model B-2 is offered in 30" and 40" widths and 15" and 20" height capabilities. Several types of infeed and discharge conveying mechanisms are available. The Model B-2 with its hot knife seal jaws makes strong, reliable seals.



Shanklin Poly Shrink Tunnels feature an annealing chamber following the shrinking chamber and a cooling fan to allow the polyethylene film to set prior to handling.

Models T-7PR, T-8PR and T-9PR Poly Shrink Tunnels

- > Tunnel Passage – T-7PR: 12"H x 22"W
T-8PR: 12"H x 28"W
(16" and 20"H available)
T-9PR: 14"H x 36"W
(20"H available)
- > Conveyor Speeds – T-7PR: Variable 15 to 120 ft/min.
T-8PR/T-9PR: Variable 15 to 60 ft/min.
- > Floor Space – T-7PR: 3' x 10'
T-8PR: 3½' x 10'
T-9PR: 4' x 10'

Shanklin Poly Shrink Tunnels are especially designed to produce superior shrinks with polyethylene film. These machines are recommended for use with Shanklin Sleeve Wrappers. The air flow has been carefully engineered to blow the open ends of the sleeve-wrapped package to a more closed configuration so that film locks securely on all corners of the product. Air temperature and velocity are fully controlled to maximize heat transfer to the film while minimizing blowing and smearing of the soft polyethylene film during shrinking.