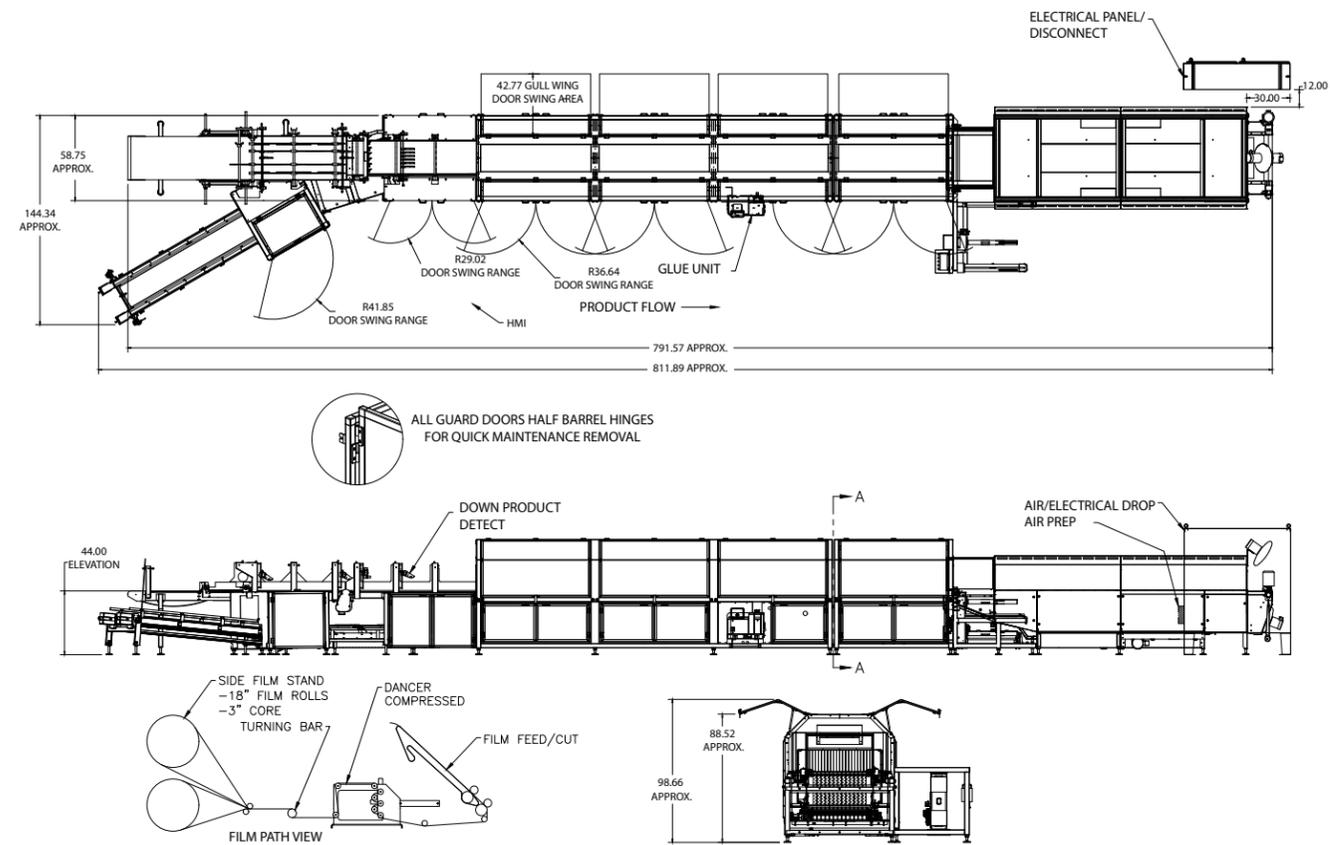


# TriWraptor TSUP Tray/Shrink Packer Floor Plans

(All dimensions approximate; contact Standard-Knapp for exact dimensions.)



# TRIWRAPTOR

STANDARD-KNAPP

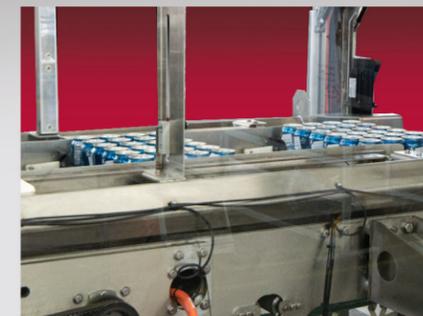
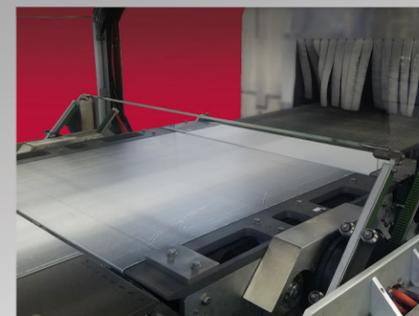
## Tray/Shrink/Unsupported/Pad Packer

Packaging Flexibility for Today and Tomorrow

### TriWraptor Tray/Shrink/Unsupported/Pad Packer Standard Features\*

Model:	TriWraptor TSUP Packer™	Controls:	Allen-Bradley Logix
Speeds:	Up to 85 trays per minute	Main Control Panel:	Nema 12
Case Type:	Tray, Pad, Unsupported, U-board	Interface:	Allen-Bradley PanelView 1000 Plus
Product Infeed Chain:	Application Dependent	Electrical Supply:	460V – 60 HZ – 3 Phase
Product Lanes:	1 to 8	Air Supply:	65 PSI
Pack Sizes:	Width: 6.5" to 21" Length: 3.25" to 16"	Lubrication:	"Lubed-for-Life" bearings
Tray Height:	1.75" to 4.50"	Servo Controller:	Allen Bradley Kinetix
Industries Served:	Food, Beverage, Personal Care, Household Chemicals and Industrial	VFD Controller:	Allen Bradley Powerflex 525
		Glue Unit:	Nordson

\* Standard-Knapp is committed to continuous product improvement. Specifications are subject to change without notice.



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# TRIWRAPTOR

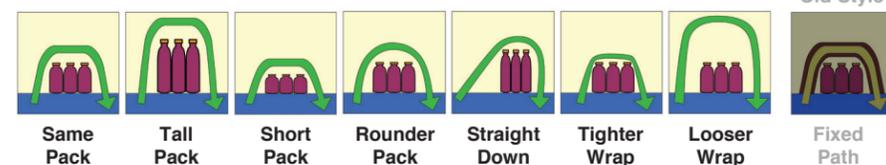
STANDARD - KNAPP

Standard-Knapp's **TriWraptor™ TSUP (Tray/Shrink/Tray/Unsupported) Packer** offers high reliability, robust construction, and the flexibility that our packaging customers need to be successful today... and into the future! Within the TriWraptor TSUP's footprint lies the ability to package PET, glass, HDPE, steel, aluminum and fiberboard into tray, film, U-board, pad and unsupported configurations.

What makes the TriWraptor truly innovative is its flexible, high-speed Robo-Wand™ wrapping module. The Robo-Wand module provides consistent, tight, wrinkle-free wrapping of a wide range of product sizes. The servo-controlled Robo-Wand has multi-axis control for limitless packing possibilities without the need for change parts and is capable of running up to 85 trays per minute.

### Robo-Wand Flexible Film Wrapping Path

**High-speed, precision wraps on all packs - with no change parts!**



### Product Infeed and Tray Magazine

The Product Infeed incorporates Zero-Gap technology to ensure that all rows of all packs are full. The high-capacity tray magazine extends out from underneath the infeed for fast, easy reloading.



### Escapement and Grouper

The Escapement removes upstream line pressure for better grouping. The Grouper separates the products into groups based on the lanes and rows of that pack.



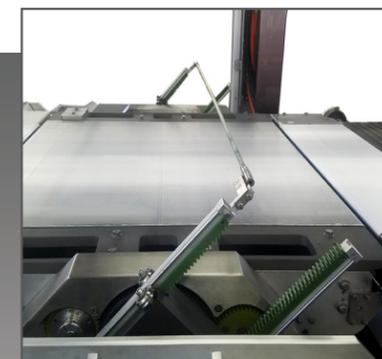
### Flight/Tray Merge Section

The Flight Merge brings the trays up underneath the grouped product and positions tray tabs for gluing.



### Gluing & Compression Section

The Gluing & Compression Section applies glue to the tray tabs using electronics-controlled pneumatic spray guns. Electronic controls ensure precision glue application over a wide range of tray sizes.



### Wrapping Section with Robo-Wand

The servo-controlled Robo-Wand provides simple and accurate product wrapping over a wide range of product heights, widths and configurations.

**Zero-Gap Infeed** eliminates product void early in loading process, providing jam-free operation and avoiding lane product starving. Smoothly and reliably, the infeed guarantees steady release of product, with no tipping, product damage or mis-packs.

**Compression Paddles** guide product with positive control for precise tray forming with smooth, even and orderly product flights.

**Robo-Wand™** wrapping system seamlessly adapts to different product profiles at the touch of a button. High-speed, wrinkle-free precision wraps on all types of packs with intuitive height and length pattern detection. Multi-axis servo-controlled operation and magnetically-held design allows for limitless packing possibilities with minimal maintenance and no change parts.

**Intuitive Operator Interface** on a high-resolution run screen, displaying at-a-glance system status. Machine speed is indicated by a recognizable speedometer graphic.

**Changeover** from one pack style to another is quick and simple, so changing to another configuration can be done in 15 minutes. The operator simply selects a new product on the operator interface screen and installs a small number of lightweight change parts. All change parts are CNC precision-machined for accurate fit and plug-and-play operation.

**Modular Construction** and engineering to extremely tight tolerances ensures gentle product transitions and smooth transfers between conveyors.

### Robust Construction

Stainless steel tubular frame

### High Reliability

Designed for 24/7 operation

### Simple Operation

Fast, easy interface

### Easy Walk-by Maintenance

See-through safety guarding

### Flexible and Adaptable

To future applications

### Quality Fit and Finish

## ULTIMATE Engineering for Efficient Operator Management

### High-Capacity, Ergonomic Tray Blank Magazine

The horizontally loaded tray blank magazine allows the operator to load up to 1200 blanks without bending or stretching.



### Slide-out Film Feed

The film bed pivots downward so that the entire assembly slides out for quick inspection and ease of maintenance. Recovery from a jam is quick and easy.



### Consistent Film Tension

Wrapping film remains taut and maintains continuous flow for worry-free output, even film cuts and dependable product wraps.

### Side Film Stand

The dual-roll side film stand provides high-capacity film inventory for less frequent roll replacement, ergonomic loading, simple film splicing, and open access to film rolls.

