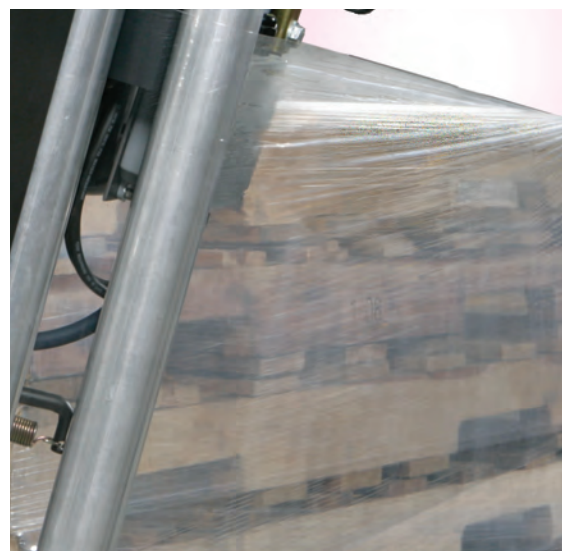


*A superior stretchwrapping system protects more than your product –
– it protects your capital investment.*

*Orion stretchwrappers combine state-of-the-art stretch packaging
technology with old-world pride and craftsmanship.*



Stretch Wrap: Economy, Efficiency, Value

With today's high-performance stretch films and advanced stretch wrapping machines, stretch packaging has become the most efficient and cost-effective method of securing pallet loads. When prestretched through a high-performance film delivery system, stretch film becomes super strong, puncture resistant and has a tremendous load holding power thanks to its natural 'memory' or elastic quality.

Orion Packaging: A Heritage of Quality

With over 25 years of stretch packaging engineering and manufacturing experience, and an installed base of thousands of machines worldwide, Orion has earned a reputation for providing industry with the most technically advanced, durable and reliable stretch wrapping systems available today. Orion pioneered high-performance powered prestretch film delivery and today the Insta-Thread sets the standard for film delivery technology. From the beginning, Orion engineers have adhered to the principles of quality durability and quality. That's why Orion machines are built from structural steel, heavy-duty industrial grade components and the most advanced electronic controls.

Stretch Wrapping Machine Types

Orion offers 3 distinct types of stretch wrapping machines; rotary tower, turntable and horizontal.

Rotary tower machines rotate the stretch film around a stationary load which is well-suited for pallet loads that are fragile, unstable, very light or very heavy. Rotary tower machines are also better for environments that require frequent wash-down in the wrapping area since the drive mechanism is above the load and the wrapping area remains clear.

Turntable models turn the pallet load on a turntable while the film carriage moves up and down on a mast. Many customers prefer turntable models for their smaller footprint and easy portability. Turntable drive systems use different support systems, so users must match the weight capacity of the machine (usually 4,000 to 6,000 lbs.) to the maximum load weight that will be processed.

Finally, there are many applications where product must be unitized and protected, but is too long to fit on a traditional pallet. Orion's Constellation line of **Horizontal** wrapping systems can wrap such loads. With ring sizes ranging from 15 to 90 inches, these machines can accommodate a wide range of product shapes and sizes. To use a horizontal wrapper, product is either pushed manually, or conveyed automatically through the wrap zone. The film carriage (larger models use two) is mounted to the rotating ring. As the product passes through the ring, the film is wrapped around the product much like the wrapping around the handle of a tennis racket. At the end of the cycle, the film is either cut manually or cut and sealed automatically.

Automatic vs. Semi-Automatic

Your production rate and throughput level will determine your need for either a semi- or fully automatic (operatorless) system. In many situations, throughput rate of 30 or more loads per hour dictate the use of an automatic system for the best efficiency.



Orion controllers use advanced PLC units for maximum reliability and flexibility. Flex models feature an advanced Human Machine Interface (HMI) for operator convenience.

Insta-Thread Film Delivery System™

Orion's Insta-Thread is a high performance powered prestretch film delivery system that is used on most of Orion's machines to ensure the best possible performance, efficiency and economy.

- Film loading is fast and easy:
 - Open hinged door, pull film across, shut door.
- Standard 260% film prestretch for film performance & economy
- Front cover plate covers rotating carriage parts and rollers
- Optional Insta-Sense™ alerts operator if film breaks or runs out
- Lifetime warranty on powered prestretch rollers
- Variable speed payout for consistent film tension around load



A New Breed: Stand-Alone Automatics

A relative new innovation to the stretch wrapping marketplace is the stand-alone automatic, a machine which offers the convenience and time-savings of an automatic model, yet which carries a price point closer to a semi-automatic. Stand-alone automatic models are offered in both rotary tower and turntable models and offer the advantage of automatic film tail attachment and detachment to the load. This eliminates the need for operators to perform these tasks and allows them to attend to other productive duties.

Flex CTS (Conveyorized Twin Station)

Stand Alone Automatic

- 15 RPM Maximum Rotation
- Low maintenance AC drive motors
- Forklift drivers stays in vehicle
- Ring Bearing turntable support
- Automatic Sequencing:
 - 1) Forklift driver places load on turntable
 - 2) Driver starts cycle remotely without getting out
 - 3) Load is wrapped, film tail is cut
 - 4) Film tail wiped to load as it is automatically conveyed to gravity conveyor
 - 5) Turntable is now clear & ready for new load



Shown with conveyor load cell option



Flex HPA High Profile Stand Alone Automatic

- Automatic Wrap Cycle for Efficiency
- 15 RPM Turntable with 'soft-start'
- 5,000 lb. Maximum Weight Capacity
- 260% Powered Film Pre-stretch
- 48"x48" Turntable for Loads up to 50"x50"
- AC/VFD Motors Reduce Maintenance
- Structural Steel Frame for Durability
- Forklift Portable from Front or Rear
- Precision Ring Bearing Turntable Support



Flex HPD High Profile Deluxe

- 15 RPM Variable Speed with 'soft-start'
- 5,000 lb. Maximum Load Weight Capacity
- 260% Powered Film Pre-stretch
- 48"x48" Turntable for Loads up to 55"x55"
- Octagonal Turntable for Easy Forklift Loading
- AC/VFD Motors Reduce Maintenance
- Structural Steel Frame for Durability
- Forklift Portable from Front or Rear
- 8 Heavy-Duty Turntable Support Casters



The Flex Line

Orion's Flex line of stretch wrapping machines are engineered and built for high performance and maximum durability. With a wide range of both turntable (high and low profile) and rotary tower models to choose from, you can be sure there's an Orion Flex machine to increase the efficiency and reduce the costs of your stretch packaging operation.



Flex LPA Low Profile Stand Alone Automatic

- Automatic Wrap Cycle for Operator Efficiency
- 15 RPM Variable Speed with 'soft-start'
- 5,000 lb. Maximum Load Weight Capacity
- 260% Powered Film Pre-stretch
- 63" Diameter Turntable for Loads up to 50"x50"
- Load via Forklift, Pallet Jack or Electric Walkie
- AC/VFD Motors Reduce Maintenance
- Full Surround Deck Protects Turntable
- Structural Steel Frame for Durability
- Forklift Portable from Front or Rear
- Precision Ring Bearing Turntable Support with added DuraGlide bearings



Flex LPD Low Profile Deluxe

- 15 RPM Variable Speed with 'soft-start'
- 5,000 lb. Maximum Load Weight Capacity
- 260% Powered Film Pre-stretch
- 63" Diameter Turntable for Loads up to 55"x55"
- Load via Forklift, Pallet Jack or Electric Walkie
- AC/VFD Motors Reduce Maintenance
- Full Surround Deck Protects Turntable
- Structural Steel Frame for Durability
- Forklift Portable from Front or Rear
- DuraGlide Turntable support system



Flex LPE Low Profile Economy

- 12 RPM Variable Speed with 'soft-start'
- 4,000 lb. Maximum Load Weight Capacity
- Adjustable Film Tension Carriage
- Optional 200% Powered Film Pre-stretch
- AC/VFD Motors Reduce Maintenance
- Structural Steel Frame for Durability
- Forklift Portable from Front or Rear
- DuraGlide Turntable support



Pictured is the RT with gantry frame and fencing options for enhanced wrap zone protection and/or high speed applications.



Flex RTD Rotary Tower Deluxe

- 16 RPM Variable Speed Tower
- No Maximum Load Weight Capacity
- High Performance Film Delivery Carriage
- Floor Mounted Control Panel for Flexibility
- Precision Ring Bearing Drive System
- AC/VFD Motors for Reduced Maintenance
- Structural Steel Construction for Durability
- Heavy Duty Chain & Sprocket Drive
- Tower Mounted Obstacle Sensing System

Flex RTA Rotary Tower Automatic Stand Alone Automatic

- 16 RPM Variable Speed Tower
- Automatic Film Tail Attach/Cut/Press
- Start Cycle With Hanging Lanyard
- No Maximum Load Weight Capacity
- High Performance Film Delivery Carriage
- Floor Mounted Control Panel for Flexibility
- Precision Ring Bearing Drive System
- AC/VFD Motors for Reduced Maintenance
- Structural Steel Construction for Durability
- Heavy Duty Chain & Sprocket Drive
- Tower Mounted Obstacle Sensing System



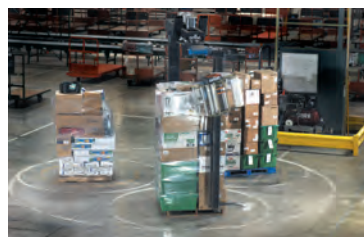
Constellation™ Orbital Wrapping Systems

- Horizontal orbital wrapping ideal for long products and loads
- Available in semi- and fully automatic models
- Configured with or without conveyor systems
- Ring sizes available from 15" to 90" inch
- Dramatic cost reduction vs. corrugated, strapping, etc
- Elastic quality of stretch film keeps loads tightly unitized

Popular Semi-Automatic Options



Scale Package



3-Station Option for M Series



Dual Turntable



Top Platen Load Stabilizer

Rotary Tower Fully Automatics



MA-X

- 30-36 RPM Maximum Rotation
- 4,500 lb. Weight Capacity
- 260% Prestretch Level
- Up to 100 loads per hour
- Category 2 Safety Rating



MA-DX

- 18-30 RPM Maximum Rotation
- 4,500 lb. Weight Capacity
- 260% Prestretch Level
- Up to 75 loads per hour
- Category 2 Safety Rating



MA-ST

- 12-18 RPM Maximum Rotation
- 4,500 lb. Weight Capacity
- 260% Prestretch Level
- Up to 50 loads per hour
- Category 2 Safety Rating

Popular Conveyor Options



Split Conveyor



Chain Transfer Conveyor



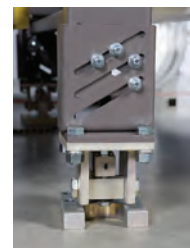
High Pass Height



Low Pass Height



X-tra Duty 6,000 lb. capacity



Load Cells

Turntable Fully Automatic



FA

- 15-25 RPM Maximum Rotation
- 4,000 lb. Weight Capacity
- 260% Prestretch Level
- Up to 75 loads per hour
- Smaller Footprint
- Category 2 Safety Rating

Popular Options for Automatic Systems



Service Catwalk



90 Degree Turn Conveyor



Palletizer/Wrapper Combo



Top Sheet Dispenser
(Wrap area model also available)



6-Sided Wrapping System



Orion Packaging Systems
A division of Pro Mach
4750 County Road 13 NE
Alexandria, MN 56308

Phone: (320) 852-7705
Toll Free: (800) 333-6556
Fax: (320) 852-7621

Email: sales@orionpackaging.com
Web: orionpackaging.com

Your Authorized Orion Distributor:

Orion Packaging reserves the right to change specifications contained in this document without notice.
Bulletin CAT/8_10_CC



Orion's modern manufacturing and headquarters in Alexandria, MN