

Automatic Pallet Roping System

For ventilated loads

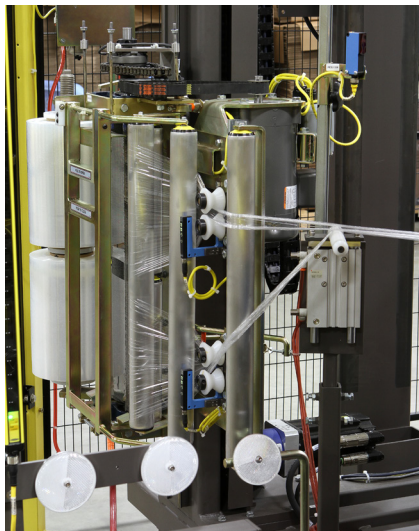
Organic products such as fresh-picked fruits and vegetables need to breathe and vent naturally-occurring gases during storage and transportation to preserve their fresh appearance, prevent decay and limit product shriveling and weight loss. Products are commonly packed in vented cases and/or trays to facilitate air flow. Full wrapping of pallet loads of these products with stretch film prevents the free flow of air through the load that lets this breathing take place and can cause spoilage.

Orion has developed a unique automatic stretch wrapping systems which applies two bands of pre-stretched roped stretch film from a high speed, servo-driven film carriage. This allows the carriage to travel up and down the mast at a high speed and create a wrap pattern that not only secures the cases together but provides a downward force to prevent the load from shifting vertically during transport. By creating a strong and flexible securing force with stretch film ropes, product damage is virtually eliminated.



Orion's automatic pallet roping system is available with single or dual roping carriage, an optional top platen to stabilize the pallet load during wrapping, heavy-duty roller conveyors and full safety fencing. The system is Category 2 safety rated.



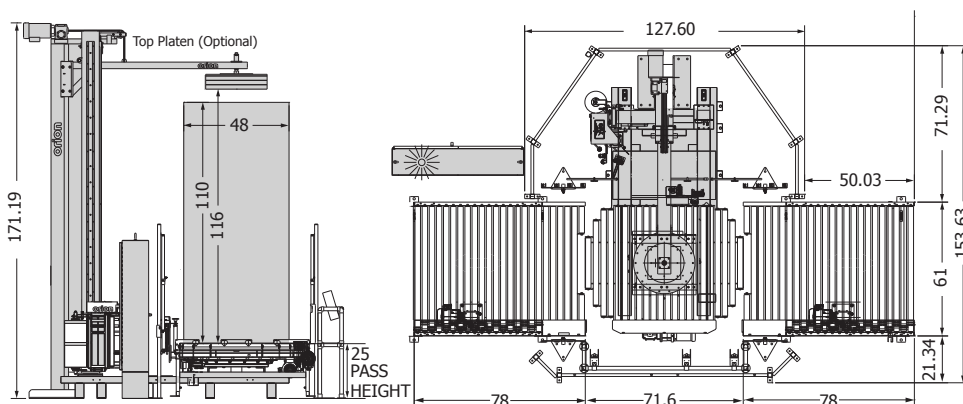


The specially designed film carriage uses two rolls of 10 inch stretch film to create the ropes that secure the pallet load. The film is pre-stretched between two motor driven rubber rollers which elongates the film 260% for maximum economy and holding power. On board photo eyes detect a film break and immediately stop the wrapping cycle. Another photo eye detects the load height to determine how high the carriage will ascend.

Specifications

Loads per Hour	Approx. 60 depending on load size & wrap pattern
Prestretch Level	260% (Available from 200% - 300%)
Maximum Load Weight	4,000 lbs. (Option for 6,000 lb. capacity)
Conveyor Speed	50 feet per minute with soft-start, soft-stop
Conveyor Rollers	2.5" Diameter on 3.25" centers
Maximum Turntable RPM	Up to 25 depending on load size, weight
Motor Type	All AC motors with VFD
Controller Type	A/B Micrologix
Safety Rating	Category 2 Standard
Finish	Baked on powder coat
Construction	Structural steel tubing & plate
Warranty	3 yr. components / 5 yr. frame / lifetime prestretch rollers

Dimensions



Approx. Dimensions (inches) for Orion FA Roping Style System

Clamp & Cut System Operation



Two film ropes are held securely in the pneumatically operated clamp & cut mechanism.



As wrap cycle begins, ropes held in place as turntable rotates.



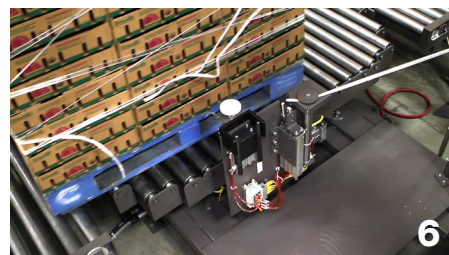
Near end of wrap cycle, 2 consecutive ropes are captured by clamp rods.



Clamp rods retract holding film ropes in place in preparation for film cutting.



Cutter mechanism extends then retracts to sever the twin film ropes.



The film ropes are held securely as the load is conveyed to the exit conveyor. The two trailing ropes are captured to prevent unraveling.