



## *THE WAVE* Wulftec Absolute Velocity Equipment

### Eliminate Downtime Due To Film Changeover

With our carousel mounted film carriage system, eliminate the downtime created by film loading. Comes with up to 4 complete NO-THREAD® powered pre-stretch film carriages that work alternatively, for continuous-operation film reloading. When the machine processes one roller, it automatically replaces the empty spool with a new roll without missing a beat or requiring operator intervention.

Built with the same quality as every Wulftec stretch wrapping system, the WAVE offers versatility in various applications and is suited for many industries.

### Human-Safe Loading Zone

Operator exposure to moving parts during operation is eliminated with our human-safe film loading zone. The film loading zone is now outside of the wrapping zone and is equipped with its own safety devices which do not interfere with the wrapping process. Therefore, the operator can reload the stretch film roll without stopping the machine operation while being 100% safe. Category 3 safety package included.

### Versatility

With up to 4 carriages on the same system, customers can pre-set wrap patterns to use the different carriages for different needs:

- Different film sizes (20", 30", 40")
- Different film thickness
- Different prestretch levels
- Different film colors
- Logos, etc..

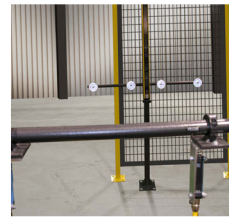
### The Wulftec Advantage:

- Non-proprietary parts
- Easy integration into existing lines
- Local support with qualified technicians for installation, integration, repairs, inspection...
- Parts delivered within 24 hours
- We offer advisory service

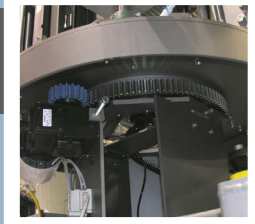


# Technical Specifications

THE WAVE	
Production rate <sup>1</sup>	Up to 125 loads per hour (based on load size and configuration)
Maximum load weight	4,000 lbs (optional 5,000 and 6,000 lbs)
Maximum load size	48" L x 48" W x 80" H
Machine dimensions <sup>2</sup>	199" L x 230" W x 180" H (with top platen)
Approx. shipping weight	12,000 lbs
Electrical requirements	230V/3/60 (other voltage available)
Pneumatic requirements	· 5 CFM @ 80 PSI ; comes with Filter/Regulator
Controls	· NEMA 4/12 control cabinet with quick disconnect (UL approved) · On-screen maintenance program and instructions · Allen Bradley CompactLogix L30 PLC with an integrated Ethernet port · Allen Bradley new generation of AC frequency drives · Allen Bradley PanelView Plus 1000 color touch screen interface
Film delivery system	· Wulftec's exclusive 40" NO-THREAD® powered pre-stretch carriage (20" & 30" available) · High speed gearbox/motor combination on vertical motion of the carriage · 1 HP AC motor with variable frequency drive · 50-300% pre-stretch
Film tail treatment	· Automatic movable main film clamp for automatic reloading · Film alignment arm and brush on film treatment · Pulsed-controlled cutter
Turntable drive	· 16 RPM variable speed (up to 30 RPM available) · 25" ring GEAR bearing with pinion GEAR drive · 230VAC motor with AC variable frequency drive
Carousel system	· Automatic indexing mechanism for lack of film or wrap pattern change · 25" ring GEAR bearing with pinion GEAR drive · 4 pre-loaded film carriages
Heavy-duty conveyors	· 1 HP VAC motor & AC variable frequency drive · 2½" diameter rollers on 3¾" centers · 77" dia. ½" steel plate turntable · 5' in / 5' out contoured powered conveyor · Heavy-duty cast iron flange mounted bearings
Structure	· Safety fencing and category 3 safety package included · Heavy-duty structural steel construction · 14 gauge formed steel tower
Warranty	· 3-year unlimited cycle warranty · 10-year warranty on steel structure · 10-year warranty on 25" ring gear bearing · Lifetime warranty on pre-stretch rollers' blue compound



Safety package making the system category 3 safe and allowing film loading during machine operation thus reducing downtime.



Carousel with 4 pre-loaded 40" NO-THREAD® powered prestretch film carriages which can be reloaded while system is in operation.



Automatic Recipe Selection with Ethernet communication will automatically select wrap patterns from 1 of 12 wrap patterns when there is product change at the palletizer. Includes bypass mode communication and bypass mode selection on touch screen.

Automatic indexing mechanism to cover for lack of film or wrap pattern change. 200% prestretch ratio with maintenance free spring loaded gate on all 4 carriages.

Each carriage equipped with a pneumatic loading clamp which will operate as the first cycle loading clamp and also the re-loading clamp when changing wrap pattern/carriage. Comes with advanced programming and versatility in mind.

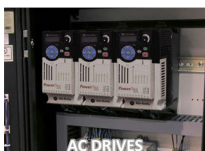


**Reduced energy usage by throughput anticipation:** Conveyorized automatic machines will operate at a lower speed when the throughput from the line is slower and speed up to allow production bursts. For an average production line<sup>3</sup>, the energy savings would equal 20 x 40 watt lamps lit for 6 hours!

**Reduced film waste by optimized resolution:** We use a higher resolution positioning system to deliver the film in a more accurate quantity. This means an average film reduction of 4 feet of film per pallet when compared to other control systems! That's 60 miles<sup>3</sup> of unstretched film per year!

**Reduced general waste by better product protection for handling and transport:** With very low wrap capability, the product is properly secured to the pallet, resulting in a pallet that is more stable for transport and therefore less damage!

**Reduced electricity consumption:** By using variable frequency drives on all its motors, Wulftec ensures that only the power required by the load is used, regardless of the HP of the motor. By this, we have standardized our motor sizes, allowing for less parts in inventory for us and our customers. This translates into greener operations at our end and at your end.



1. Production rate based on load and machine size and configuration
  2. Overall dimensions of machine in operation
  3. Based on a production rate of 60 pallets per hour, 2 shifts, where 50% of the production is in "peak-mode", 250% pre-stretch
- All machine specifications are subject to change without prior notice / Nominal dimensions shown



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