7100-95-OHA “HERCULES” HEAVY DUTY
CONVEYORIZED OVERHEAD AUTOMATIC
STRETCH WRAP SYSTEM GENERAL SPECIFICATIONS

PRODUCTION SPEED
- 1-95 loads per hour
  NOTE: Process rates will vary with load size, number of wraps &
  conveyor speed

LOAD CAPACITY
- Maximum load weight: 4,000# dynamic – 12,000# static
- Maximum load size: 50” W x 60” L (79” max. load diagonal) x 80” H (90” H using 30” film) (plus up to 4” top overlap)
- Minimum load size: 30” W x 30” L x 24” H

ROTARY ARM
- 20” diameter ring bearing support system
- ANSI #80 direct chain drive c/w chain tensioner
- 1-33 RPM rotational speed c/w soft start acceleration
- Final revolution deceleration and positive stop alignment
- 3 HP DC rotary arm drive motor
- Air-operated rotary arm braking system
- Central lube system

FILM CARRIAGE ELEVATOR
- 1 HP DC variable speed motor
- Electrically-operated fail-safe brake
- ANSI # 50 direct chain drive c/w shock dampeners
- Maintenance free 18 point carriage guidance system

FILM DELIVERY SYSTEM
- **NEW Super Rapid Thread II™** 20” capacity pre-stretch film carriage
- Special Film Threading Device – Uniquely orientates the sticky side of the film against the pre-stretch rollers and the inside of the load.
- 1/2 HP DC variable speed motor
- Fully electronic dynamic dancer corner compensation
FILM DELIVERY SYSTEM …continued…

- 33 to 313% fixed stretch capability
- Pre-stretch ratio variable by easy sprocket change
- **Rapid Thread™ Safety Door with auto power cut-off switch**
- Superior *film-to-roller* contact area
- Lifetime warranty on pre-stretch rollers

POWERED ROLLER CONVEYOR

Basic system: 5 ft. infeed section, 12 ft. Process/wrap zone section and 5 ft. exit section

Each section includes:

- Chain driven live roller conveyor rated 4,000# per section
- 2-1/2” diameter 11 gauge rollers c/w 11/16” hex axles on 3” centers
- All rollers ANSI # 40 chain driven, roller to roller
- 54” effective roller width
- Conveyor speeds 40 to 70 FPM (specify required speed) with electronic soft start
- Pass-line height – 18” from floor to top of rollers
- 1 HP AC variable speed reversible TEFC motor
- Automatic load indexing and centering by photo-eye & PLC logic

CONTROL FEATURES

- **Allen-Bradley** CompactLogix Programmable Logic Controller with L30ER CPU & Ethernet communication
- **Allen-Bradley** PanelView 600 Plus Color Touch Screen Operator Interface provides diagnostic messaging and machine status information
- Illuminated Power Start / Reset button
- Emergency Stop button
- Wrap Cycle Start (rewrap) button
- Manual controls provided for rotary arm jog, film carriage elevator lower/raise, film clamp open/close and conveyors forward/reverse
- Wrap Bypass mode selector
- Separate film carriage elevator raise & lower speed controls
- Film tension (Force-to-Load) control
- Separate 1 to 12 revolution top & bottom wrap control
- Triple beam auto load height sensing photo-eye, detects dark or shiny loads
| CONTROL FEATURES | • Broken film/out of film detection c/w automatic machine reset and fault beacon light  
|                  | • Rotary arm and film carriage elevator dynamic braking  
|                  | • NEMA 12 control panel and junction boxes  
|                  | • Dust tight slip ring assembly  
|                  | • Non-proprietary UL/CSA approved components  
| AUTOMATION FEATURES | • Pneumatically actuated film clamp mechanism  
|                   | • Pneumatically actuated film tail cut/wiper arm mechanism  
|                   | • Ni-chrome impulse hot wire film cut off c/w automatic periodic cleaning cycle  
| STRUCTURAL FEATURES | • All structural steel construction  
|                 | • Structural tube machine tower & frame  
|                 | • Electro-static powder coated paint finish  
| SAFETY FEATURES | • Personnel Safety – Rotary Arm Obstruction Emergency Stop Sensor  
|                  | • Wire mesh safety barriers enclose the wrap zone to prevent personnel intrusion  
|                  | • Operator Access Gates c/w Safety Interlock Switches disable machine operation when gate(s) opened  
|                  | • Hard-wired emergency stop and operator access gate circuits with Category 3 dual channel safety relays  
| ELECTRICAL INPUT REQUIREMENT | • 460 Volts 3 Phase 60 Hz 30 Amps (other voltages available – consult factory)  
| PNEUMATIC REQUIREMENT | • 3 CFM @ 80 PSI clean dry pneumatic supply required  
|                      | • Filter/regulator c/w gauge & lock-out valve provided  
| TYPICAL SYSTEM DIMENSIONS | • 264” (L) x 170” (W) x 156” (H)  
|                          | Overall includes conveyor (L) and Control panel (W) – all dimensions approximate  

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