



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 AC rotary arm drive motor
 - Air-operated rotary arm braking system
 - Central lube system
-

**FILM CARRIAGE
ELEVATOR**

- 1 HP AC 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 AC 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 ...continued...	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• All structural steel construction• Structural tube machine tower & frame• Electro-static powder coated paint finish
SAFETY FEATURES	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 460 Volts 3 Phase 60 Hz 30 Amps (other voltages available – consult factory)
PNEUMATIC REQUIREMENT	<ul style="list-style-type: none">• 3 CFM @ 80 PSI clean dry pneumatic supply required• Filter/regulator c/w gauge & lock-out valve provided
TYPICAL SYSTEM DIMENSIONS	<ul style="list-style-type: none">• 264" (L) x 170" (W) x 156" (H) Overall includes conveyor (L) and Control panel (W) – all dimensions approximate
