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

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**PRODUCTION SPEED**

- 1-95 loads per hour

NOTE: Process rates will vary with load size, number of wraps & conveyor speed

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**LOAD CAPACITY**

- Maximum load weight: 4000# dynamic – 12,000# static
  - Maximum load size: 50" W x 60" L (79" max. load diagonal) x 80" H (plus up to 4" top overlap)
  - Minimum load size: 30" W x 30" L x 24" H
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**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
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**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
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**FILM DELIVERY  
SYSTEM**

- **Super Rapid Thread**™ 20"/30" capacity pre-stretch carriage with *Patent Pending* pressure balanced nip roller system
  - 1 HP DC variable speed motor
  - Fully electronic dynamic dancer corner compensation
  - 33 to 313% fixed stretch capability
  - Pre-stretch ratio variable by easy sprocket change
  - **Rapid Thread**™ **Safety Door with auto power cut-off switch**
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**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

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**CONTROL FEATURES**

- **Allen-Bradley** SLC-5/03 Programmable Logic Controller
- **Allen-Bradley** PanelView 600 Color Operator Interface c/w Keypad and Touch Screen 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
- 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

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<b>AUTOMATION FEATURES</b>	<ul style="list-style-type: none"><li>• Pneumatically actuated film clamp mechanism</li><li>• Pneumatically actuated film tail cut/wiper arm mechanism</li><li>• Ni-chrome impulse hot wire film cut off c/w automatic periodic cleaning cycle</li></ul>
<b>STRUCTURAL FEATURES</b>	<ul style="list-style-type: none"><li>• All structural steel construction</li><li>• Structural tube machine tower &amp; frame</li><li>• Electro-static powder coated paint finish</li></ul>
<b>SAFETY FEATURES</b>	<ul style="list-style-type: none"><li>• <b>Personnel Safety – Rotary Arm Obstruction Emergency Stop Sensor</b></li><li>• Wire mesh safety barriers enclose the wrap zone to prevent personnel intrusion</li><li>• <b>Operator Access Gates c/w Safety Interlock Switches</b> disable machine operation when gate(s) opened</li><li>• Hard-wired emergency stop and operator access gate circuits with <b>Category 3 dual channel safety relays</b></li></ul>
<b>ELECTRICAL INPUT REQUIREMENT</b>	<ul style="list-style-type: none"><li>• 460 Volts 3 Phase 60 Hz 30 Amps (other voltages available – consult factory)</li></ul>
<b>PNEUMATIC REQUIREMENT</b>	<ul style="list-style-type: none"><li>• 3 CFM @ 80 PSI clean dry pneumatic supply required</li><li>• Filter/regulator c/w gauge &amp; lock-out valve provided</li></ul>
<b>TYPICAL SYSTEM DIMENSIONS</b>	<ul style="list-style-type: none"><li>• 264" (L) x 170" (W) x 156" (H)</li></ul> Overall includes conveyor (L) and Control panel (W) – all dimensions approximate

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