MODEL 7100-65-OHA “HERCULES” HEAVY DUTY
CONVEYORIZED OVERHEAD AUTOMATIC
STRETCH WRAP SYSTEM GENERAL SPECIFICATIONS

PRODUCTION SPEED
- 1-65 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 (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 # 60 direct chain drive c/w chain tensioner
- 1-22 RPM rotational speed c/w soft start acceleration
- Final revolution deceleration and positive stop alignment
- 1 HP DC variable speed motor

FILM CARRIAGE

ELEVATOR
- 3/4 HP DC variable speed motor
- ANSI # 50 direct chain drive c/w shock dampeners
- Maintenance free 12 point carriage guidance system

FILM DELIVERY
- **NEW Super Rapid Thread II™** 20” capacity pre-stretch film carriage
- Special Film Threading Device – Uniquely orients 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
- 33 to 313% fixed stretch capability
- Pre-stretch ratio variable by easy sprocket change
- **Rapid Thread™** Safety Door with auto power cut-off switch
FILM DELIVERY SYSTEM
...continued...

- Superior **film-to-roller** contact area
- Lifetime warranty on pre-stretch rollers

POWERED ROLLER CONVEYOR

Basic system: 5ft infeed section, 12ft Process/wrap zone section and 5ft 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 30 to 60 FPM (specify required speed) with electronic soft start
- Pass-line height – 18” from floor to top of rollers
- 3/4 HP AC variable speed reversible TEFC motor on infeed & outfeed conveyors / 1 HP AC variable speed reversible TEFC motor on process conveyor
- Automatic load indexing and centering by photo-eye & PLC logic

CONTROL FEATURES

- **Allen-Bradley** MicroLogix 1400 Programmable Logic Controller (PLC) with built-in EtherNet/IP communications
- HMI Touchscreen Operator Interface Panel
- 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 switch
- 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
<table>
<thead>
<tr>
<th>CONTROL FEATURES</th>
<th>Dust tight slip ring assembly</th>
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<tbody>
<tr>
<td></td>
<td>Non-proprietary UL/CSA approved components</td>
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<tr>
<th>AUTOMATION FEATURES</th>
<th>Pneumatically actuated film clamp mechanism</th>
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<tr>
<td></td>
<td>Pneumatically actuated film tail cut/wiper arm mechanism</td>
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<td>Ni-chrome impulse hot wire film cut off c/w automatic periodic cleaning cycle</td>
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<tr>
<th>STRUCTURAL FEATURES</th>
<th>All structural steel construction</th>
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<tr>
<td></td>
<td>Structural tube machine tower &amp; frame</td>
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<td>Electro-static powder coated paint finish</td>
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<tr>
<th>SAFETY FEATURES</th>
<th>Personnel Safety – Rotary Arm Obstruction Emergency Stop Sensor</th>
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<tr>
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<td>Wire mesh safety barriers enclose the wrap zone to prevent personnel intrusion</td>
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<td><strong>Operator Access Gates c/w Safety Interlock Switches</strong></td>
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<td>disable machine operation when gate(s) opened</td>
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<td>Hard-wired emergency stop and operator access gate circuits with <strong>Category 3 dual channel safety relays</strong></td>
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| ELECTRICAL INPUT REQUIREMENT          | 230 or 460 Volts 3 Phase 60 Hz 30 Amps (required voltage to be specified) (other voltages available – consult factory) |

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<th>PNEUMATIC REQUIREMENT</th>
<th>3 CFM @ 80 PSI clean dry pneumatic supply required</th>
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<td>Filter/regulator c/w gauge &amp; lock-out valve provided</td>
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<tr>
<th>TYPICAL SYSTEM DIMENSIONS</th>
<th>264” (L) x 167” (W) x 140” (H)</th>
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<td>(Overall includes conveyor (L) and Control panel (W) – all dimensions approximate)</td>
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