



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: 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 # 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
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**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
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**FILM DELIVERY
SYSTEM**

- **Super Rapid Thread**™ 20" capacity pre-stretch carriage with *Patent Pending* pressure balanced nip roller system
 - 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**
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**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
 - Dust tight slip ring assembly
 - Non-proprietary UL/CSA approved components
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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">• 230 or 460 Volts 3 Phase 60 Hz 30 Amps (required voltage to be specified) (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 167" (W) x 140" (H) (Overall includes conveyor (L) and Control panel (W) – all dimensions approximate)
