



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 x 80" H (79" Max. load diagonal)
 - 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 and positive stop alignment
 - 1 HP DC rotary arm drive 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
SYSTEM**

- **Rapid Thread**™ 20" capacity pre-stretch film carriage
 - 1/2 HP DC variable speed motor
 - Fully electronic dynamic dancer corner compensation
 - 33 to 313% fixed stretch capability (shipped fixed at 250%)
 - Pre-stretch ratio variable by easy sprocket change
 - **Rapid Thread**™ (Safety Door) with auto power cut-off switch
-

**POWERED ROLLER
CONVEYOR****Basic system: 5ft infeed section, 12ft Process/wrap zone
section and 5ft exit section****Each section includes:**

- Chain driven live roller conveyors
- 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 1500 Programmable Logic Controller (PLC)
- HMI Touchscreen Operator Interface Panel
- Illuminated power start/reset button
- Emergency stop mushroom 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
- Separate film carriage elevator raise & lower speed controls
- Film tension (force-to-load) control
- Separate top & bottom wrap counters
- Auto load height detection photo-eye
- Broken film/out of film detection c/w automatic machine reset and fault beacon light
- Rotary arm and film carriage elevator dynamic braking system
- Wrap bypass mode
- 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
- Safety fences enclose the wrap zone to prevent personnel intrusion
- Operator access gate c/w safety switch disables operation when gate is opened

**ELECTRICAL INPUT
REQUIREMENT**

- 230 or 460 Volts 3 Phase 60 Hz 30 Amps (required voltage to be specified)

**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 167" (W) x 140" (H)
(Overall includes conveyor (L) and Control panel (W) – all dimensions approximate)
-