



**MODEL 4100-45-OHA "TITAN" OVERHEAD
CONVEYORIZED AUTOMATIC STRETCH WRAP SYSTEM
GENERAL SPECIFICATIONS**

PRODUCTION SPEED

- 1-45 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 50" L (71" 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

- Double flange bearing support system
 - Twin V-belt drive pulleys with belt tensioner
 - 1-14 RPM rotational speed c/w soft start acceleration
 - Final revolution deceleration and positive stop alignment
 - 1/2 HP DC variable speed motor
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**FILM CARRIAGE
ELEVATOR**

- 1/2 HP DC variable speed motor
 - Direct flat belt drive system
 - 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, 11ft 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 20 to 50 FPM (specify required speed) with electronic soft start
- Pass-line height – 18" from floor to top of rollers
- 1/2 HP AC variable speed reversible TEFC motor on infeed & outfeed conveyors / 3/4 HP AC variable speed reversible TEFC motor on process conveyor
- Automatic load indexing and centering by photo-eye & PLC logic

CONTROL FEATURES

- **PANASONIC** FP-X Programmable Logic Controller (PLC)
- 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

**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**
- 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**

- 208Y/120 Volts 3 Phase 60 Hz 30 Amps (other voltages available – consult factory)

**PNEUMATIC
REQUIREMENT**

- 3 CFM @ 80 PSI clean dry pneumatic supply required
- Filter/regulator c/w gauge & lock-out valve provided

**TYPICAL SYSTEM
DIMENSIONS**

- 252" (L) x 148" (W) x 157" (H)
(Standard includes Conveyors (L) and Control Panel (W) – all dimensions approximate)
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