COUSINS

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: 4,000# 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

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

FILM CARRIAGE ELEVATOR

- 1/2 HP DC variable speed motor
- Direct flat belt drive system
- Maintenance free 12 point carriage guidance system

FILM DELIVERY SYSTEM

- *NEW Super Rapid Thread II* ™ 20" capacity pre-stretch film carriage
- *Special Film Threading Device – Uniquely orientates 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, 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

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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

CONTROL FEATURES …continued…	• 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)