



NITECH IPM®
NITECH INTERNATIONAL PACKAGING MACHINES

PT2020 UTS UTS Film System with Programmable Control and Touchscreen Interface, and Precision Tension Management

Overview

The NITECH PT2020 UTS is the flagship high-profile stretch wrapper, built for operations that require full control over the wrapping process and maximum throughput. Using the Uni-Tension System (UTS), it maintains consistent film tension throughout the entire wrap cycle while allowing precise control over how each load is wrapped.

Load the turntable with a forklift, attach the film to the pallet, select a program, and press start. The machine automatically wraps the load while controlling film tension, overlap, and wrap sequence based on programmed settings. The carriage travels up the load, applies preset wraps, then reverses and completes the cycle before stopping in position for unloading.

This level of control allows operators to standardize wrapping across different load types, reduce variation, and fine-tune performance for demanding, high-volume applications where consistency and repeatability are critical.

Features

- ✓ UTS (Uni-Tension System) film delivery
- ✓ Accepts 30" machine stretch film for increased load coverage per rotation
- ✓ Programmable wrap cycles with adjustable wrap patterns
- ✓ Consistent film tension control throughout the wrap cycle
- ✓ Automatic load height sensing with photo eye
- ✓ Advanced control interface for programming and monitoring
- ✓ Variable speed turntable with soft start and stop
- ✓ Heavy-duty all steel construction
- ✓ Up to 6,000 lb load capacity
- ✓ Industry-leading warranty (4-year components, 10-year structure, 10-year gearbox)
- ✓ Scale option available



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info@nitechipm.com



800-237-6496



Tower Design



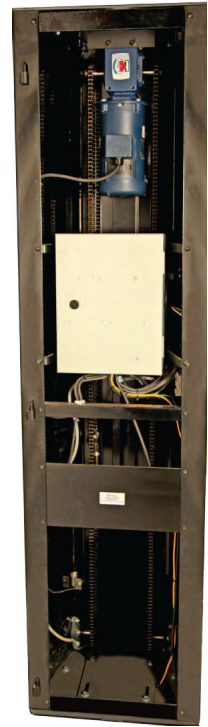
The heavy-duty 10 gauge formed steel tower provides ruggedness and stability. The film carriage elevator uses maintenance-free UHMW polyethylene slides that require no lubrication. Concealed within the tower is a dual roller chain elevator that provides proven strength, reliability and positive drive. The rear door of tower accesses elevator drive and electrical control panel.

Alternate powered Roller brake system

Compatibility - works with:

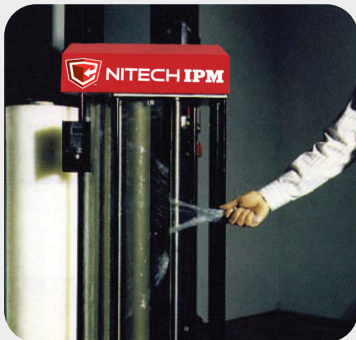
Uses a motorized urethane roller to maintain constant film tension. This system is ideal for applications requiring consistent tension and secure load containment, especially for applications dealing with irregular or breathable packaging materials.

- ▶ Stretch film
- ▶ Vented film
- ▶ Plastic netting
- ▶ Optional Attachment: Enables banding or film roping for specialized wrapping needs.



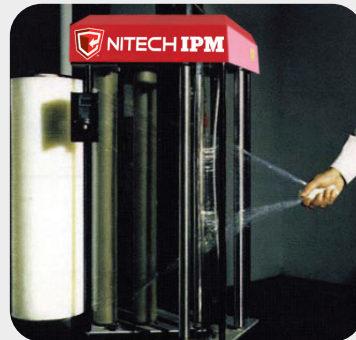
Gasketed rear tower door swings open for access to the elevator and turntable gearmotor. The electrical control panel also swings open for easy access.

The fixed ratio UTS power pre-stretch system is available with constant tension spring dancer, and has incorporated a quick-threading cage. Simply open the cage, pull the film across the front of the unit and close the cage. The film is automatically threaded around the urethane stretch rollers, idler rollers and dancer. A plexiglass safety shield protects the operator from rotating rollers. Stretch ratios of 200%, 225%, 250% and 300% are available with the UTS film delivery.



Quick threading feature
Pull-out cage enables film to be pulled across rollers easily.

When cage is closed, film is automatically positioned around stretch rollers and dancer roller.



- ▶ Accepts 20" and 30" Rolls of stretch film on 3" Core
- ▶ No-Thread Film Carriage
- ▶ 1/2 HP DC 90 Volt Motor
- ▶ Film Force Dial

7" FULL-COLOR HMI TOUCH SCREEN - Standard Model



- ▶ High-resolution touch-enabled display for intuitive user interaction and easy navigation.

Click Direct Logic PLC Integration

- ▶ Reliable and programmable logic control.
- ▶ Seamless communication with HMI for real-time operations.

Manual Operating System via HMI

- ▶ Full manual control of machine functions directly from the touch screen.
- ▶ Ideal for setup, maintenance, and troubleshooting.

Real-Time Machine Alerts

- ▶ Instant visual and/or audible alerts on the HMI.
- ▶ Keeps operators informed of system status and faults.

Full-Color Parts Drawings

- ▶ On-screen technical illustrations and diagrams.
- ▶ Supports faster diagnostics and part identification.

8 Modifiable Programs

- ▶ Customizable machine programs for different products and load containment.
- ▶ Easily edited and saved via the HMI interface.

User-Friendly Interface

- ▶ 7" Full color LCD touchscreen: bright, intuitive, and easy to navigate.
- ▶ Customizable programs: store and name up to 8 unique wrapping sequences.

Program features:

- ▶ Adjustable bottom, mid, and top wraps.
- ▶ Programmable top of load overwrap.
- ▶ Two additional modes: wrap up in one pass and wrap down in the next.

Advanced Wrapping Options

Automatic belly-banding:

- ▶ Available in both single-pass programs.
- ▶ Activated by pressing and holding the start button during elevator travel.
- ▶ Adjustable belly-band level and frequency.

Manual & Diagnostic Modes

Manual mode:

- ▶ Accessed via touchscreen.
- ▶ Includes up/down arrow keys for elevator and turntable control.

Troubleshooting & maintenance:

- ▶ On-screen parts breakdowns with part numbers.
- ▶ Built-in troubleshooting alerts.
- ▶ Film tension (force-to-load).

Control & Monitoring

Status indicators:

- ▶ Power on.
- ▶ Ready.
- ▶ Film tension.

Cycle counters:

- ▶ Resettable and non-resettable wrap counters.

Control buttons:

- ▶ Start / resume.
- ▶ Control on / pause.
- ▶ Stop.
- ▶ Main power disconnect.

Operator Convenience

Pause & resume functionality:

- ▶ Allows for corner board placement, top sheet application, or labeling.
- ▶ Automatically pauses if film breaks; resumes after reattachment.
- ▶ Turntable home indexing starts and stops in same location after each cycle.

Adjustable settings:

- ▶ Turntable speed.
- ▶ Elevator speed
- ▶ Film tension (force-to-load).



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Specifications

Weight	1853 Lbs
Machine Profile	High Profile
Maximum Load Size	56" x 56" x 87"
Product Capacity	50 Loads per Hour
Machine Dimensions	111"L x 48"W x 87"H
Weight Capacity	6,000 lbs.
Electrical Data	120 VAC 60 Hertz 20 Amps, Conventional Style 3 Prong 20, Power Cord, NEMA 12 Enclosure, UL Approved Components
Turntable Size	48" Octagon Turntable w/6" Safety Skirt
Turntable Height	11 3/4"
Turntable Drive	3/4 hp DC Motor (Totally Enclosed Fan Cooled), 4 Point Caster Supports (1,800 lb. capacity each), Heavy-Duty Direct Drive Gear Box w/ 2 1/4 output, Lubrication Free Enclosed gear drive design, Synthetic Lube in all Gearboxes (-30 to 120 Degrees), Turntable Indexing Home Alignment, Variable Speed 0-12 RPM with Soft Start and Soft Stop
Controls	3 Indicator Lights Power, Ready and Tension, 7" Color Touch Screen with 8 Modifiable Programs, Carriage Variable Speed Dial, Emergency Stop Button, Film Tension Dial (Force to Load), Full Color Operators Manual on Touch Screen, Liquid Crystal Display (LCD), Manual Back-Up Operating System, Non-Resetable cycle counter, On/Pause Button, Photo Eye for Automatic Load Height Sensing, Real Time Machine Alerts From Touch Screen, Start/Resume Switch, Turntable Jog, Turntable Variable Speed Dial
Film Delivery	((Gear switch to 250%, 275% or 300%), 1/2 HP DC 90 Volt Motor,) 30" UTS Pre-Stretch Film Delivery, Accepts 20" and 30" Rolls of Stretch Film on 3" Core, No-Thread Film Carriage, Pre-Stretch level 200% fixed)
Film Carriage	1/2 HP 90 Volt DC Motor, Adjustable Lower limit Switch, Automatic and Manual Belly Wrapping, Dispenser Kill Switch Top/ Bottom, (Dual #50 Chain Carriage Lift carriage), Top Over Wrap, Variable Speed Carriage 0-20 FPM
Tower Construction	81" Wrap height using 30" Film, Carriage Kill Switch Top/Bottom, Formed All Steel Tower, Gasket Sealed Tower, Maintenance Free UHMW Full Tower Slides, Optional Hi-Slide with 130" Wrap Height, Rear Access Tower Door
Frame Construction	All Welded Steel Construction, Easy Access to all Components, Forklift Portable from Front and Rear, Heavy-Duty Structural Tube and Plate, Industrial Powder Coated Paint Finish
Power Required:	115 volts, 50/60 hertz, 20 Amp Service
Technical Documentation	Complete Electrical Schematics, Complete Operators Manual, Illustrated Parts Break down
Warranty	4 Year Limited Warranty (100% of All Components), 10-Year Gear Reducer Warranty, 10-Year Structural Warranty
Average Cycle Time	1 minute 20 seconds wrapping 40" x 48" x 60" pallet with 12 wraps. Load configuration will vary wrap cycle.
Shipping Weight	2,110 lbs



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