



## UNWINDS & WINDERS

- + STANDARD AND CUSTOM-BUILT DESIGN
- + EASY TO INTEGRATE TO YOUR EXISTING LINE

ISO 9001 • 2000

**BIG ENOUGH TO DELIVER • SMALL ENOUGH TO CARE**  
SINCE 1973

## UNWINDS - WINDERS

PYRADIA offers a wide range of standard and custom designed unwind and winder equipment, to provide you with the most appropriate solution to your process application needs. They are designed to be easily integrated to an existing line or combined with PYRADIA's coaters, laminators and dryers, to create a completely new process line.

### AVAILABLE CONFIGURATIONS

1. SINGLE POSITION UNWINDS and WINDERS
2. TURRETS UNWINDS and WINDERS
3. LDSW (Linear Displacement surface Winder)
4. TWO DRUM MANUAL SURFACE WINDER
5. THREE DRUM AUTOMATIC SURFACE WINDER
6. SURFACE AND CENTRE DRIVEN LOG ROLL SYSTEMS  
Manual to full automation feature
7. SALVAGE WINDER  
Single direction or fully reversible
8. ZERO SPEED UNWINDS  
Butt or lap splice



*This phantom axis turret winder is equipped with pull roll section, score edge trim, offset pivot guide and triple lay-on roll mode of operation. It can operate with the lay-on roll, disengaged, pressure controlled or in minimum gap mode. The latest technology is used to control the winder, through AC Vector drives, PLC and user friendly MMI. The toughest materials can be cut on the fly using our revolutionary back-knife support system (patent pending).*



*Single position lightweight unwind with automatic edge guide system and tension control can handle 500 lbs rolls.*



*Single position lightweight unwind with automatic edge guide system and tension control can handle 500 lbs rolls.*



*Light roll-floor pickup unwind stand with integral sheeting station.*



*Dual position uncoiler, specially designed for the foil industry, can handle 10 000 lbs rolls and is equipped with a manual splice table*

All of our models, from the simplest single position stand to the most sophisticated automatic turret can incorporate the following features and options:

- + Manual tension control
- + Ultrasonic diameter sensing
- + Dancer-roll control
- + Closed loop transducer roll control

## TENSION CONTROL

- + Pneumatic puck style brakes
- + Magnetic particle braking techniques
- + Regenerative DC or AC Vector drives for very low tension
- + Servo drives
- + Fully reversible systems
- + Braked or driven (center, surface or surface/center driven)

## BRAKES/DRIVES

- + Optional operator-assist-splice-table, incorporating up-stream & down-stream web clamps, a knife guide and tape dispenser.
- + Manual, semi-automatic and fully automatic unwind splicing and rewind cut & transfer offered on all unwind and winder equipment.
- + Zero speed dual position unwinds, with lap or butt splice capability and semi-automatic splice.

## SPLICING/CUT & TRANSFER

- + Heavy-walled fabricated tubular structure
- + Thick machined plate construction

## CONSTRUCTION TYPES

- + Over/under unwind/wind capability
- + Manual side-lay, automatic edge guiding, centerline guiding
- + Skew roll for baggy edges
- + Shafted or shaftless
- + Cantilevered or removable mandrel

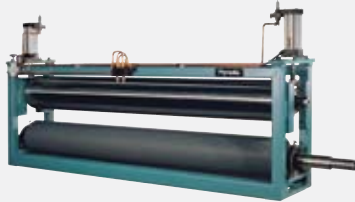
## OTHER AVAILABLE FEATURES



*Driven surface unwinds with side paddle roll containment.*

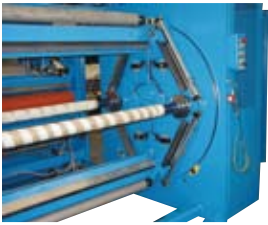
**DESIGNS AND MANUFACTURES INDIVIDUAL COMPONENTS AND COMPLETE TURNKEY SYSTEMS**

**LAMINATORS**



- + Hot Roll
- + Cold Roll
- + Moisturizer
- + Flatbed
- + Roll to Roll
- + Roll to Sheet
- + Sheet to Sheet

**UNWINDS/WINDERS**



- + Single Position
- + Dual Position
- + Turret
- + Fly Splicing

**DRYERS**



- + Arched (Vertical & Horizontal)
- + Straight
- + Gas & Electric Convection
- + Gas & Electric Infrared
- + Floatation
- + LEL Controls

**COATERS**



- + Gravure
- + Knife Over Roll
- + Reverse Roll
- + Mayor Rod
- + Saturation
- + Split Film
- + Offset Gravure

**POLLUTION ABATEMENT**



- + Thermal Oxidizers
- + Solvent Recovery
- + Heat Recovery

**COMPLETE LINES**



- + Coating & Laminating Lines
- + Printing & Coating Lines
- + Custom Lines