

# VERTICAL LAMINATOR



## Product Features:

- 0-15 FPM Speed (or Specify).
- Lamination rollers slide out for easy clean or change-out.
- Quick disconnect Lamination rollers allow change-out in 15 minutes.
- Automatic Web Guide into lamination rollers.
- Footage counter and closed loop speed control.
- Material pre-heat roller available. (shown)
- Resist angle (pre-heat) fully adjustable.
- automatic splice detection available. (shown)
- Splice station available. (shown)
- UL Certified Panel.
- Web Cleaner available. (shown)
- Dual material shafts available. (shown)

## General Description:

The Vertical laminator packs a large number of features into a compact footprint. Precise control of process speed and temperature combined with tight tolerance rollers provide utmost lamination quality. The modular design allows you to customize to your specific application. All options can be field installed, providing flexibility in the initial specifications. The base is designed to provide lift cart access for ergonomic loading of heavy rolls and the rollers are cantilevered for easy threading. The unwind rewind pair are PLC controlled with a touch screen user interface. Optional Accumulation package allows for splicing rolls together without interrupting the process.

## Specifications



### PERFORMANCE FEATURES

Web Width	6-24 inches
Edge guidance	0.004 in. accuracy
Feed rate	0-15 FPM Continuous
Material roll diameter	Up to 16 inches
Material spool direction	Both CW and CCW
Splice station	For accurate splicing
Web Tension	4-40 lbf
Pressure regulation	2-80 psi +/- 0.1%
Material shaft T.I.R.	Less than 0.005 in.
Idler Diameter	6 inches
Idler T.I.R.	Less than 0.002 in.
Roller Alignment	Level and parallel to 0.003 in.

### STANDARD FEATURES

Material Construction	Stainless or Powdercoat Steel / Anodized Al
Material Core	Pneumatic – Touch Screen activated
Material Drive	Safety Clutch included
Controls	PLC controlled
Electrical Panel	UL certified

### Additional Features:

- 350CFM booster exhaust fan included.
- Exhaust hood door opens for easy web access.
- Mylar peel cores automatically lift when resist core is deflated.
- Complete maintenance access with swing out electrical panel.
- I.R. Pyrometer verifies exit temperature.
- Completely integrated and automatic controls for unattended operation.
- Precision roller alignment for thin film handling.
- Designed for ergonomics and safety.

### OPTIONS

Pre-heat roller	Pre-heat material prior to lamination for better bond.
Splice station	Allows precise splicing of material
Viton coated lamination rollers	Significantly Increases lamination roller life.
Dual material shaft and accumulation	For uninterrupted material processing during roll change.
Tension control	Closed loop/remote set
Inline Inspection	Verification of process parameters prior to upstream processing.
Process Data Collection	Many SCADA packages available
Web Cleaner	Tacky roll, ultrasonic, etc.
Laser Alignment	Entire process line aligned to 0.003 in.

### DIMENSIONS AND POWER

Machine Size (LxDxH):	88 in. x 82 in. x 80 in. (1219 x 1855 x 2007 mm)
System Weight	2000 lb.
Electrical	120/240 single phase 60/50 Hz (Specify)
Air	80 psi
Exhaust	350 CFM