



AUTOMATIC CUT SHEET LAMINATOR 1600-T





DESCRIPTION

The Automatic Cut Sheet Laminator 1600-T is a high-productivity machine, specially designed to laminate a full range of PCB. This unit is capable of handling thin and large panels up to 5 mm (0.2 in.) thickness. It is constructed to guarantee high quality lamination and the absolute reliability of the machine over a long period of time.

ADVANTAGES

- High productivity and reliability
- High lamination speed
- Easy to manage and use
- Thickness or panel dimension adjustments are not required
- Suitable for innerlayers or rigid panels—full range from 0.1–5.0 mm (0.004–0.2 in.) thickness
- Dry film photoresist width up to 762 mm (30 in.)—panel sizes up to 787 mm (31 in.) wide
- High lamination pressure—by booster cylinders
- No interruption during lamination when cutting the film (no chips)
- Friendly operation—Allen Bradley PLC—operator interface in various languages
- Output panel temperature detected
- Soft contact centering unit
- Preset for automatic in-line operations easy handshake with other units
- Preset for very thin layer 5 or 6 fingers (0.05–1 mm) option

Overall Dimensions		Dry Film Photoresist Size	
Width	1,730 mm (68.1 in.)	Width (min.–max.)	120–762 mm (4.7–30.0 in.)
Length	1,760 mm (69.3 in.)	Length (min.–max.)	187–762 mm (7.4–30.0 in.)
Height (min.–max.)	1,680–1,880 mm (66.1–74.0 in.)	Rolls Diameter	250 mm (9.8 in.)
Overall Dimensions (Electrical Cabinet)		Conveyor (Adjustment)	
Width	550 mm (21.7 in.)	Conveyor Height	850–1,050 mm
Length	630 mm (24.8 in.)	(min.–max.)	(33.5–41.3 in.)
Height	1,580 mm (62.2 in.)	Conveyor Speed	
Electrical Requirements		Conveyor speed adjustable up to 5 m/min. (16 ft./min.)	
Power Type	3 phase; 50/60 Hz + Ground	Lamination Roll	
Power Consumption	8.5 KVA	Temperature (max.)	130°C (266°F)
Nominal Voltage*	400/480/220/200V ±7%	Materials	Silicon 65 SH (anti-solvent rubber 75 SH optional)
Compressed Air		Film Placement	
Consumption	12 NI/Cycle (0.42 cfm)	Front edge	Accuracy ± 0.5 mm (0.02 in.)
Working Pressure	6 kg/cm (85.3 psi)	Back edge	Accuracy ± 1 mm (0.04 in.)
ExhaustSide	Accuracy ± 0.5 mm (0.02 in.)		
Consumption	300m/hourOptions		
Weight		Expansion rolls support poly take-up top and bottom	
Gross	1,750 kg (3,857 lbs.)	Expansion rolls support dry-film top and bottom	
Net	1,402 kg (3,090 lbs.)	Expansion system rolls for lateral cutting	
*Different voltage can be provided upon request.		Very thin layer 5 or 6 fingers (0.05–1 mm)	
Panel Size		Important Note: The above specifications can only be applied to the lamination of PCBs that meet standard quality requirements, including but not limited to materials, warp, rigidity, surface topography or uneven surface.	
Width (min.–max.)	120–787 mm (4.7–31.0 in.)		
Length (min.–max.)	200–787 mm (7.9–31.0 in.)		
Thickness (min.–max.)	0.1–5 mm (0.004-0.197 in.)		