



AUTOMATIC CUT SHEET LAMINATOR 1600-G



DESCRIPTION

The Automatic Cut Sheet Laminator 1600-G 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

- 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
- Tacking bars temperature controlled by thermoregulator
- 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 core–1 mm) option
- Preset for connecting phone line for remote monitoring or updating of machine
- Statistic Process Control (SPC) - Easy data system proprietary software provided*

* Example: local and remote supervision, management and monitoring data by PC, management of maintenance operations

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 adjustable up to 5 m/min. (16 ft./min.)	
Electrical Requirements		Lamination Roll	
Power Type	3 phase; 50/60 Hz + Ground	Temperature (max.)	130°C (266°F)
Power Consumption	8.5 KVA	Materials	Silicon 65 SH or Anti-solvent rubber 75 SH (optional)
Nominal Voltage*	400/480/220/200V ±7%		
Compressed Air		Tracking Bars	
Consumption	12 NI/Cycle (0.42 cfm)	Temperature (max.)	80°C (176°F)
Working Pressure	6 kg/cm ² (85.3 psi)	Film Placement	
Exhaust		Front edge Accuracy	± 0.5 mm (0.02 in.)
Consumption	300 m ² /hour	Back edge	Accuracy ± 1 mm (0.04 in.)
Weight		Side	Accuracy ± 0.5 mm (0.02 in.)
Gross	1,750 kg (3,857 lbs.)	Options	
Net	1,402 kg (3,090 lbs.)	Expansion rolls support poly take-up top and bottom	
Panel Size		Expansion rolls support dry-film top and bottom	
Width (min.-max.)	120–787 mm (4.7–31.0 in.)	Expansion system rolls for lateral cutting	
Length (min.-max.)	200–787 mm (7.9–31.0 in.)	Very thin layer 5 or 6 fingers (0.05–1 mm)	
Thickness (min.-max.)	0.05 core–5 mm (0.004–0.197 in.)	Software "Easy Data System" Statis Process Control	

*Different voltage can be provided upon request.

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.