Circuit Automation DP1500

The DP-1500 coating machines are the ideal choice for coating liquid photoimageable ink on printed circuit boards. DP-1500's apply all types of liquid photoimageable coatings, including soldermask, primary image, dielectric, and legend. The DP-1500-2XL expands the maximum panel size from 30" on the DP-1500-2X to coat a huge 36" x 24" backpanel. These versatile machines incorporate more than eight years of experience of dual-sided coating with many new features designed to reduce cycle time, increase yields and improve process reliability.

DP-1500's are fast: cycle time for loading coating and unloading an 18" x 24" panel can be as short as 22 seconds. High productivity is maintained even when a variety of different sized jobs are encountered due to the DP-1500's QC (Quick Change) Technology.

SPECIFICATIONS

Model:	**DP-1500-2X**	**DP-1500-2XL**
Description:		
Min Panel Dimension	8" x 12"	8" x 12"
Max Size	24" x 30"	24" x 36"
Min Thickness	0.010"	0.010"
Max Thickness	0.250"	0.250"
Frame Size	37" x 46.6"	37" x 53.6"
Print Speed	1.0 to 10" inch/sec	1.0 to 10" inch/sec
Electrical Service	110V/15AMP	110V/15AMP
Flood Speed	1.0 to 10" inch/sec	1.0 to 10" inch/sec

Coating Features:

Versatility of the machine:
Photoimageable dielectric material, BGA panels and liquid photoimageable resist material are coated on DP-1500's in production.

Photoimageable Legend Ink:
Dual sided coating of photoimageable legend and marking inks will improve yields and reduce cycle time in this critical process.

Fine Line and Feature Capability:
The uniform and controllable thickness of screen printed LPISM allows the imaging of very fine features. Soldermask can be coated lower than the feature height.

Flat and Thick Coverage:
BGA panels require a thick, consistent and flat surface and can be coated with one pass to the desired thickness of soldermask.

Efficiecy:
Screen printing is much more efficient than curtain coating or spray coating for applying mask. In typical use, screen printing can be expected to coat nearly twice as much surface area as other processes, and thus cost half as much.

Lower Solvent Emissions:
The lower solvent content of the ink actually applied reduces solvent emissions by two to five times over other processes. This reduces, and may eliminate, additional air pollution control costs.