Specifications

Exposure Application	Dry film (etching resist)
Photomask	Film (Glass mask fitting available as option)
Optical Method	Collimated passage
Lamp	One 5.0kW ultra-high pressure mercury short-arc lamp
Collimation	Within 1.2° (half-angle)
Declination	Within 1.0° (half-angle)
Illumination Uniformity	Over 90% (610 x 510mm area)
Initial UV Instensity	25mW/cm² approx. (with new lamp)
Integrated Exposing Energy	Max. 9990mJ/cm²
Peak Wavelength	365nm
Lamp Cooling	Forced air cooling

Capabilities

Panel Size	W330 x L250mm – W640 x L540
Panel Thickness	0.1 to 2.0mm

Vision Registration

Alignment Method	Pattern Matching (256 Gray Scale)
Photomask Target	Black Circle (Other targets available as option)
PWB Target	Through Hole (Copper trace or via hole targets available as option)
Alignment Mechanism	The photomask is vertically aligned with the panel using pulse motors to move the photomask in the X, Y and θ directions so that the photomask overlaps with the panel.
Alignment Accuracy	±10μm / 3σ (repeatability)

General Utilities

Power Requirements	200V, 3φ, 50/60Hz, 17kW
Air Supply	500L/min., 0.5MPa
Exhaust	φ200mm duct, 12m³/min.
Unit Footprint	4,350(W) x 2,400(D) x 2,240(H)mm
Conveyor Height	890 – 940mm, adjustable
Weight	3.0 tons approx.

Note 1: Productivity will be different depending on the drilling and cutting accuracy of the panels, initial setting data (i.e. number of alignment holes, whether Read-Check is used, etc.), exposure and vacuum time, and deterioration of the lamp and mirrors.