

# 自動壓膜機

# CSUN

## AUTO CUT-SHEET LAMINATOR

## CSL-A25U 系列



自動壓膜機系列機型 Series :

CSL-A25C	Contact Free Type
CSL-A25D	Double Roller Type
CSL-A25H	High Pressure Conformation
CSL-A25PHII	Build-in Pre-Heater Device Specially for 0.05mm Thin Core
CSL-A25T/E	Standard Type
CSL-A25U	High Pressure Uniformity
CSL-A25U II	High Pressure Uniformity with Double Roller
CSL-A25UPH II	Build-in Pre-Heater Device Specially for 0.05mm Thin Core High Pressure Uniformity with Double Roller
CSL-A32	For 32" Wide Back Panel <small>24x32 吋樣板</small>

## 機台特點 Characteristics

### 薄板能力

#### Thin Substrate Transportation

縮小入出料滾輪間距，並搭配「二段式移載」之專利機構及輔助導板，使基板平穩傳送至熱壓滾輪，大幅提升薄板壓膜之可靠度，可穩定生產2mil含銅基板。

Patented two-stage transfer device contributes stabilization and reliability for 2mil thin substrate.

### 均壓能力

#### Pressure Uniformity

配置「均壓」之專利壓輪機構，利用特殊的槓桿加壓方式，可達到更均勻的壓力輸出，提供更佳的壓膜能力。

Patented lever mechanism of hot roller brings the optimal lamination quality.

### 張力導引

#### Tension guiding

透過整平吸盤的特殊「負壓空間」區隔，可提供切膜後乾膜尾端連續的張力，以提升良好的壓膜穩定性。

Unique negative pressure chamber establishes the tension for dry film tail end bringing more stable lamination.

### 潔淨設計

#### Cleanliness

採用不鏽鋼骨架加鋁合金設計，搭配潔淨的負壓系統，符合Class1000等級使用需求。

The laminator meets class1000 clean room classification standard.

### 便利性

#### Convenience

採用鑄鐵底座，穩定性佳，入出料離位設計，方便機台保養維修與清潔，軌道式的壓輪更換設計，方便壓輪拆卸與更換。

Moveable inlet & outlet sections create a convenient operating space. Rail-mounted hot roller makes the disassembly simple.

### 連續壓膜

#### Continuous Lamination

可選擇搭配出料端之材料捲取段，進行軟板片對捲(STR)的連續壓膜及捲收，滿足客戶不同之壓膜需求。

Optional sheet-to-roll device satisfies the continuous FPC lamination process.

## Leading in Thermal and UV Light Processing Equipment



# CSL-A25U

<b>適用範圍</b> Panel dimension	<b>Length:</b> 250 to 640mm ( 10" to 25" ) <b>Width:</b> 250 to 640mm ( 10" to 25" ) <b>Thickness:</b> 0.05 ( without copper ) ~ 3.2mm; 0.05 ( with copper )~1.6mm
<b>乾膜尺寸</b> Dry film dimension	<b>Width:</b> 250 to 610mm ( 10" to 24" ) <b>Thickness:</b> 15 to 76 $\mu$ m ( 0.6 to 3.0mil ) <b>Supply roll diameter:</b> $\phi$ 160-250mm
<b>壓膜製程</b> Lamination process	<b>Conveyor speed:</b> 1-5 m/min ( 196.85 in/min ) adjustable <b>Processing capacity:</b> 4pcs/min ( 18" panel, 2.5m/min, 17cm spacing ) <b>Pressure:</b> 2~5 kg/cm <sup>2</sup> <b>Tacking time:</b> 1-3 sec. ( adjustable ) <b>Temperature:</b> Ambient to 120°C <b>Pressure roll size:</b> $\phi$ 80 x 760mm Induction heater 1.5KW x 2
<b>壓膜功能</b> Laminatable dimension against base board	<b>Front-end spacing from leading edge:</b> 1 to 32mm ( 0.04" to 1.26" ) <b>Rear-end spacing from trailing edge:</b> 1 to 28mm ( 0.04" to 1.1" ) <b>Side edge tolerance:</b> $\pm$ 1mm ( 0.04" ) <b>Resist detection:</b> Non-contact, resist film chamber empty alarm
<b>機台尺寸 / 重量</b> Dimension / Weight	<b>External dimension:</b> L1575*W2160*H2100; 1600kg <b>Pass line height:</b> 950+50mm
<b>外部供應</b> Utilities	<b>Air supply:</b> Comperssed air@6kgf/cm <sup>2</sup> (90psi), 40L/min <b>Power:</b> AC220V 3 $\phi$ 60Hz, 12KVA ( various power supply choices available )
<b>進料段</b> Panel in feed section	Section movable, with panel self-centering design
<b>出料段</b> Panel out feed section	Section movable, with panel transfer rollers
<b>溫度控制器</b> Temperature controller	RKC PID / Fuzzy, SSR,
<b>控制方式</b> Operating mode	PLC + touch screen LCD display
<b>排氣</b> Exhaust	$\phi$ 4" x 2 ( Chemical exhaust 4 CMM & Hot air exhaust 6 CMM )
<b>捲取段</b> Sheet to roll ( 選配 Optional )	<b>Tension control:</b> 1~8kgf ( adjustable, in percentage terms ) <b>Rewinding accuracy:</b> +/-1mm <b>Rewinding air shaft:</b> 3"core ( 6" core adapter )

Due to C SUN continuing efforts to improve their systems, these specifications are subject to change without notice.  
 受長期研發需要，本公司保有規格修改之權利，恕不另行通知

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