



LEFC-33

CCD Registering Screen Printer

CCD影像對位半自動高精密網印機



■ 適用範圍

適用於各種軟硬材質印件之高精密網印作業，例如：光電產業之LCD框膠；觸控面板、ITO導電玻璃、薄膜；背光模組擴散片、導光板、EL冷光板、血糖測試片、軟/硬印刷電路板(FPC/PCB)之線路、BGA、PCB埋入式電阻、...等印刷。配備CCD影像對位，修正上料之對位誤差，提高精準度。

Application: Suitable for high precision screen printing production include soft/hard printing material, such as LCD Cell Sealant, Touch panel, ITO, Membrane, Diffusers for Back Light module, Light Guide Plate, EL panel, Blood glucose test strip, FPC/PCB, BGA, Embedded Resistor, etc. Equip with CCD Registering device correct inaccuracy of alignment when loading material to improve precision.

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產品特性：

- CCD影像自動對位高精密網印機，搭配左右跑檯，快速作業，對位精準 $\pm 0.01\text{mm}$ 內，性能優越，生產良率大幅提昇。
- 機台結構，強固質輕，配合頂級進口伺服馬達傳動加上精密導向定位週到，運作穩定、安靜且更滑順快速。
- 機台印刷座四柱汽缸同步鎖定裝置設計，確保印刷膜厚精度。
- 伺服馬達抬網及傳動印刷搭配高精密數位恆壓印刷頭，讓印壓得以完整展現恆壓效果。
- 人機介面觸控螢幕操作設定簡便，可記憶100組生產條件，並具故障自動檢測及故障排除之顯示。
- 設有安全復歸，自動偵錯系統、安全光柵、急停按鈕、警示燈柱等安全設計。
- 另可選配靜電消除棒，光電專用防塵罩等功能。
- The aligning accuracy within $\pm 0.01\text{mm}$, and provide sliding table, to improve excellent function and production yield rate.
- The structure of machine is lighter and stronger, and provides top servo motor and drive motor, more stable, quiet, and fast.
- Provide four post locking system on printing device, to ensure thickness of printing membrane accuracy.
- The servo motor for peeling function and high precision digital constant pressure printing head, to showing constant pressure effect completely.
- Operation by touch panel, easy to set and operate, the memory of HMI save 100 unit conditions of production, and provide other function, such as auto exanimate breakdown and display trouble shooting.
- Provide safety device, such as safety return to origin, auto detect error system, safety optical grating, Emergency switch, alarm light, etc.
- Optional accessory: antistatic bar, anti-dust cover for optical industry.

項目 Item	規格 Specification
印刷檯面尺寸 Table dimensions	500x600mm
最大印刷面積 Printing Area (MAX)	360x360mm
最小印刷面積 Printing Area (MIN)	150x150mm
印件厚度 Thickness of printing material	0.3-5.0mm
檯面水平精度 Level Precision of Table	$\pm 0.05\text{mm}$
檯面往復精度 Movement precision of table	$\pm 0.005\text{mm}$
檯面吸氣尺寸 Vacuum Area	340x340mm
檯面吸氣孔徑尺寸 Diameter of vacuum hole	$\phi 1.5\text{mm}$
檯面吸氣孔間距尺寸 Interval of vacuum hole	20x20mm (加密)
刮印方式 Printing Mode	單刮刀覆墨印刷 Printing by single squeegee+ covering print
CCD取像範圍 CCD Capture area	X ± 185 -70mm Y ± 185 -70mm
CCD鏡頭視野 CCD Shot sight	10x7.5mm
影像對位精度 Registering precision	$\pm 0.005\text{mm}$
整合精度 Integration Precision	$< \pm 0.01\text{mm}$
對位整合時間 Registering integration Time	$< 1\text{sec}$
最大裝框尺寸 Frame Dimension (MAX)	850x850mm
最小裝框尺寸 Frame Dimension (MIN)	650x650mm
網框厚度 Frame Thickness	30-40mm
網框高度 (洗版位) Frame Height (Cleaning Position)	400mm
檯面高度 Table Height	1000 $\pm 30\text{mm}$
刮刀印壓 Printing Pressure	1-6kg/cm ²
抬網間隙 Gap	0-25mm (人機介面設定) Setting by touch panel
印刷網版與檯面間距 Space between Screen and Table	0-15mm (人機介面設定) Setting by touch panel
印刷行程 Printing Stroke	0-500mm (人機介面設定) Setting by touch panel
印刷/回墨速度 Printing/Cover Ink Speed	20-600mm/sec (人機介面設定) Setting by touch panel
刮刀傾角 Squeegee Inclination	$\pm 40^\circ$
印刷旋角 Printing Swing Angle	$\pm 15^\circ$
適用電源 Main Power	3 ϕ , 220V/380V, 50/60Hz
耗電量 Power Consumption	3.6kw
壓縮氣源 Air Pressure	6~8kg/cm ²
耗氣量 Air Consumption	60L/Min
機器尺寸 Dimension	2400x1400x1900mm
機器重量 Weight	1500kg