



Precise Registration
Excellent Performance

對位精確
性能優越

影像自動對位網印機

CCD REGISTERING SCREEN PRINTER

ATMAOE MF66

全自動影像對位網印機 (硬板)

ATMATIC MF66/R

**FULLY AUTOMATIC CCD
REGISTERING SCREEN PRINTER (RIGID BOARD)**

適用於各種平面膜/片/薄板形印件之高精密網印作業。

例如：軟/硬印刷電路板之HDI、BGA、Flip chip、FPC、ACP；

光電顯示玻璃基板/薄膜(冷光板、導光板、擴散片、觸控面板等)之各種導電、發光、電介、封裝漿料印刷。

Suitable for high precise screen-printing on substrates in flat film/sheet/thin board form.

Ex: HDI、BGA、Flip chip、FPC、ACP, legend, etc. printing for PCB/FPC.

Conductive, emissive, die-electrical, sealing paste, etc. printed onto FPD glass panel/film.

(EL Panels, LGP Panels, BEF Films, Touch Panels, etc.)



影像自動對位網印機

CCD Registering Screen Printer

ATMAOE MF66 (600x600 mm)

標準型為左進右回

STANDARD TYPE
LEFT IN AND REVERSE



高精度伺服印刷馬達
Servo Printing Motor



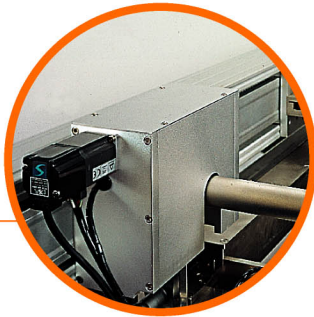
XY θ 伺服自動定位檯面
XY θ Servo Auto Registering Table



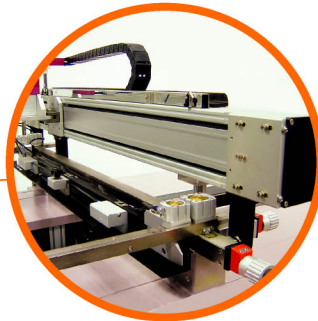
深度膜厚控制微調
Pressing Depth Micro A

類比恆壓控制系統
Analogous Equalizing System

adjustment



任意設定數位化伺服抬版
Digitally Preset Synchronous Peel-off



網框微調及鎖定機構
Screen Frame Micro Adjustment
and Locking Device



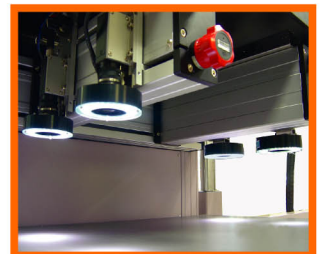
精度水平煞車裝置
Accurate Leveling Brake Device



彩色數位化設定人機介面
Colored Touch Panel

Option

特殊選配功能



標準2支CCD 可增加至4支CCD
Standard 2 CCD
Able to be added up to 4CCD

全自動影像對位網印機(硬板)

Fully Automatic CCD Registering Screen Printer (Rigid Board)

ATMATIC MF66/R (600x600 mm)

標準型為左進右出

STANDARD TYPE
LEFT IN RIGHT OUT

自動進料裝置
Automatic Inlet Device

自動退料裝置
Automatic outlet Device



CCD 影像對位系統

- 採用工業電腦+Window版高階程式驅動三軸伺服對位系統、對位快速精準。操作介面採用彩色液晶顯示屏。
- 利用CCD光學倍率來放大靶標影像，分析比較、影像解析能力達到 $0.4 \mu\text{m}$ 、配合X/Y/ θ 伺服驅動、自動精密對位之目的，對位精度可達 $\pm 5 \mu\text{m}$ ，檯面移位快速精準。
- 影像系統整合各指令成單一指令，在靶點選定後，即可自動完成系統校正與參數貯存等動作。生產管理需求紀錄可網路連結、遠端存取，不但縮短時間，提昇便利性，更可滿足對位印刷的高精密需求。
- 影像系統多值化處理，任意圖像都可作為靶點，不受形狀、顏色限制，可做尋跡追蹤。

CCD REGISTERING SYSTEM

- Adopts IPC + WIN advanced program to drive three-axis servo registering system, fast and precise registration. Operational interface uses color LCD .
- Uses CCD optical magnification target image, analysis and comparison, resolution achieves $0.4 \mu\text{m}$, conjoins X/Y/ θ servo drive, purpose for auto precise positioning, registering accuracy achieves $\pm 5 \mu\text{m}$, table displacement rapid and precision.
- Visual image system integrates various into single command, aiming target to accomplish system adjustment and save parameters automatically. Enables to link internet to recall / save production management record at long distance end, not only reduce time and raise convenience, also fulfill requirement for high precise registration.
- Visual image system multi-value processing, discretionarily image can be targeted, shape and color are not restricted and can be traced.

Features

創新設計 Innovative Design

最新第七代四柱式高精度網印機搭配左右跑檯及CCD視覺自動對位系統，對位精確、性能優越，大幅提升良率。

Latest G7 four-post high precision screen printer integrated with lateral sliding table & CCD auto-registering system, precise registration, supreme performance to increase yield rate of production.

強固精密 Solid & Accurate

結構先進，強固質輕，配合頂級傳動(6組伺服、1組AC)及精密導向定位系統，運行快速，穩靜滑順，定位精準，節省能源。

Advanced strong & light-weighted structure with top-class drives(6 servos + 1 AC) and accurate guidance & positioning systems for fast, quiet, smooth movement to save energy.

裝設快速 Fast Setup

數據化操作功能參數設定+100組記憶生產條件，大幅減少裝設時間、提昇產能。

Digital function & parameter settings + 100 memories/recall greatly shorten setup time and upgrades capacity.

操作便捷 Easy to Operate

高階PLC+工業電腦整合控制，彩色人機介面+彩色液晶顯示，提供多種功能參數設定與即時操作/監控，操作方便，滿足數據化、標準化、人性化之完善要求。

Advanced PLC + industrial computer + colored touch panel + colored LCD display + switch panel featuring digital setting multi-function /parameter & instant operation & live monitoring, easy to operate and fulfills requirements on job standardization, numeric management & user-friendliness.

安全防護 Safety

設有自動偵錯系統、安全復歸，安全光柵、急停按鈕、警示燈柱等，安全警示防護周全。

Sufficient with full safety protections of error-diagnose systems, safe restoration, safety light barrier, emergency-stop buttons, light post, etc..

選項配備 Options

可選配：右進型、鏟墨/防滴墨兩用裝置、治/夾具設計構造、自動升降定位銷、CCD對版裝置、自動進料/退料裝置...等功能。

Right in Type, Anti-drip/Ink Shovel Device, Customized Jig/Tooling, Retractable Registration Pins, CCD Screen Registering, Auto Loader/Unloader.



國家產品形象
銀質獎
SILVER NATIONAL
AWARD OF EXCELLENCE
WINNER



台灣精品
SYMBOL OF EXCELLENCE
WINNER



創新研究獎
NATIONAL
INNOVATION
RESEARCH AWARD



國家磐石獎
NATIONAL AWARD OF SME
(Small and Medium Enterprises)



歐洲安全規格認證
CE CERTIFIED



通過 ISO9001
ISO14001
ISO 9001 ISO14001
CERTIFIED



小巨人獎
NATIONAL
LITTLE GIANT AWARD
WINNER

Specification

(metric scale as standard, inch scale as rough conversion)

型號	Model	ATMAOE MF66		ATMATIC MF66/R	
印刷檯面尺寸(深x寬, mm)	Table size (DxW, mm in.)	750 x 750	29 ¹ / ₂ x29 ¹ / ₂	750 x 750	29 ¹ / ₂ x29 ¹ / ₂
吸氣面積(深x寬, mm)/選配	Vacuum area (DxW, mm in.)/Option	600 x 600	23 ⁵ / ₈ x23 ⁵ / ₈	600 x 600	23 ⁵ / ₈ x23 ⁵ / ₈
最大印刷面積(深x寬, mm)	Max. printing area (DxW, mm in.)	600 x 600	23 ⁵ / ₈ x23 ⁵ / ₈	600 x 600	23 ⁵ / ₈ x23 ⁵ / ₈
最小印刷面積(深x寬, mm)	Min. printing area (DxW, mm in.)	300 x 300	11 ³ / ₄ x11 ³ / ₄	300 x 300	11 ³ / ₄ x11 ³ / ₄
印件厚度(mm)	Substrate thickness (mm mil.)	0.05~6.0	2 ~ 236	0.05~6.0	2 ~ 236
CCD取像範圍(mm, 工作面積中心)	CCD capturing range(mm in., work center)	X= 132.5~305 Y=-25~+305	±5 ¹ / ₄ ~12 -1~+12	X= 132.5~305 Y=+270~305	±5 ¹ / ₄ ~12 +10 ⁵ / ₈ ~-12
CCD鏡頭視野(mm, 墊環20mm)	CCD visual field(mm in., ring 20mm)	12 x 9		10 x 8	
整合精度(mm)	Integration accuracy(mm mil)	0.01	±0.4	0.01	±0.4
對位整合時間(秒)	Integration time(sec.)	<1		<1	
最大裝框尺寸(深x寬, mm)	Max. O/D frame size (DxW, mm in.)	1100 x 1100	43 ¹ / ₄ x43 ¹ / ₄	1100 x 1100	43 ¹ / ₄ x43 ¹ / ₄
最小裝框尺寸(深x寬, mm)	Min. O/D frame size (DxW, mm in.)	900 x 900	35 ¹ / ₂ x35 ¹ / ₂	900 x 900	35 ¹ / ₂ x35 ¹ / ₂
網框高度(mm)	Frame height (mm in.)	25-45	1~1 ³ / ₄	25-45	1~1 ³ / ₄
網版洗版高度(mm)	Screen height at Cleaning level (mm in.)	340	13 ³ / ₈	340	13 ³ / ₈
檯面高度(mm)	Table height (mm in.)	920+60	36 ¹ / ₄ x23 ³ / ₈	920+60	36 ¹ / ₄ x23 ³ / ₈
最大產能(印刷時間為1秒時, 次/時)	Max. capacity(print time in 1 sec., P/H)	450		300	
刮刀印壓(kgs), 數控設定	Squeegee pressure (kgs lbs, digitally set)	3-63	6.6-138	3-63	6.6-138
刮刀傾角(°)	Squeegee inclination angle(°)	20 15		20 15	
刮印/回墨速度(mm/秒), 數控設定	Print head speed (mm in./sec., digitally set)	20-625	3/4-24 ⁵ / ₈	20-625	3/4-24 ⁵ / ₈
印刷頭斜印旋角(°)	Printing section skew-angle (°)	2.5		2.5	
電源	Power source	3 φ, 220V/380V,50/60Hz		3 φ, 220V/380V,50/60Hz	
耗電量(kW)	Power consumption (kW)	4.42		4.42	
氣源壓力(kgs/cm ²)	Air pressure (kgs/cm ² PSI)	5~6	71~85	5~6	71~85
耗氣量(升/週轉)	Air consumption (l Gl/cycle)	3.2		3.5	
機器尺寸(寬x深x高, cm)	Machine dimension (WxDxH, cm in.)	260 x 170 x 180	102x67x71	370 x 170 x 180	146x67x71
機器重量(kgs)	Machine weight (kgs lb)	1520	3344	1720	3784

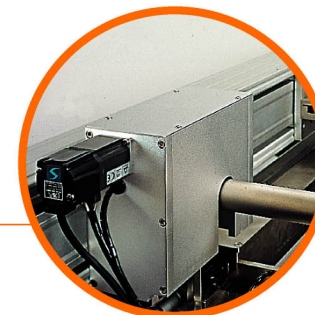
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高精密伺服印刷馬達
Servo Printing Motor

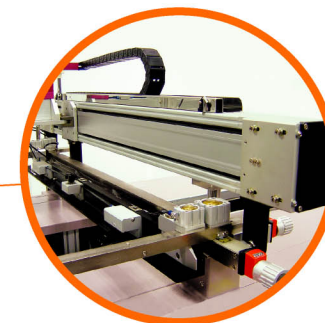


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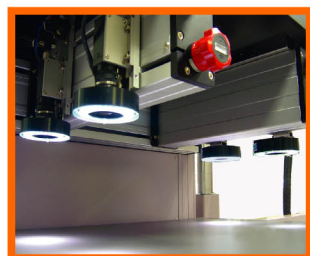
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