



SKYHILL

A Single Source for All Screen Printing Needs.

The Cutting Edge for Flexible Electronics

軟性電子網印之利器

Roll to Roll Printing – The Code Word of Automation

捲對捲印刷 – 自動化的代名詞



MT-5070FCA

Roll to Roll Cylinder Screen Printing Machine

捲式送料平壓圓網印機

MT-5070FC, 5070FC-65, MT-5070

Roll to Roll Cylinder Screen Printing Machine 捲式送料平壓圓網印機

The Cutting Edge for Flexible Electronics 軟性電子網印之利器

Roll to Roll Printing – The Code Word of Automation 捲對捲印刷 – 自

- 選購配備
塔式烘箱
專利號碼:316380

- Optional
TOWER DRYER
Patent NO:316380



● Cylinder 承印滾輪

● 原料驅動引取輪(專利號碼146116)

● Web take up roller features vacuum suction (patent number 146116)

塔式熱風烤箱

1. 採氣浮設計，全程接觸，只需輕力即可
2. 採雙面加溫，加快
3. 採用超導體電熱，
4. 烘乾段長，佔地小
5. 有15, 25和35米烘

Tower Dryer/塔式烘箱 (Option/選購)

Specifications 規格:

Model	型 式	MT-5070TD-15
Drying length	烘 乾 長 度	15M(米)
Machine width	機 器 面 寬	1.7 M(米)
Heaters	電 熱 片	4 PCS/片
Max. web temperature	捲 材 最 高 溫 度	70 °C
Max. heater temperature	電 熱 片 最 高 溫 度	200 °C
Max. power needed (for 500)	最 高 耗 電 量 (500型)	21 kw
Max. power needed (for 650)	最 高 耗 電 量 (650型)	28 kw

DFCA, MT-5070FCA-65

動化的代名詞

選購配備/Optional
UV乾燥機設備/UV DRYER



TOWER DRYER

不接觸滾輪，沒有刮傷問題。因無可驅動。可避免高溫下被拉延變型。乾燥速度，每一加熱段皆可調溫。昇溫快速。

乾段長三種機種可選擇。

1. Equipped with air cushion rollers, preventing any contact between web and rollers to eliminate scratching and keep the driving power to a minimum.
2. Heating on both sides of web to speed up the drying/curing. Every heating section is adjustable, giving operators an excellent heating profile.
3. Equipped with super conductive heater to shoot up the temperature.
4. Long heating length and takes up little space.
5. A total of three models with 15, 25 and 35 meters heating length, are available

	MT-5070TD-15	MT-5070TD-25	MT-5070TD-35
	15 M(米)	25 M(米)	35 M(米)
	1.7 M(米)	2.3 M(米)	2.9 M(米)
	12 PCS/片	20 PCS/片	28 PCS/片
	150 °C	150 °C	150 °C
	200 °C	200 °C	200 °C
	45 kw	70 kw	90 kw
	65 kw	103 kw	136 kw

Model No.

Max.printing area

Max.size of screen frame

Min. size of screen frame

Web width

Max.material diameter

Unwinder core diameter

Max.winding diameter

Winder core diameter

Machine Speed

Travel

Thickness of material

Positioning accuracy

Printing (Screen)
drive motor (servo)

Take up drive motor
(servo)

Unwinding motor

Winding motor

Take up roller vacuum motor

Blower for Air Cushion Roller

Vacuum box motor

Air compressor motor
(not included)

Working air pressure

Unwinder Weight
(W x D x H)

Machine Weight
(W x D x H)

Winder Weight
(W x D x H)

Rewinder Weight
(W x D x H)

Stairs Weight
(W x D x H)

Blower Set Weight
(W x D x H)

Rated Power

- 本數值隨時不斷研究改進
- All specifications and de

Specifications 規格

型 式	MT-5070FC	MT-5070FC-65	MT-5070FCA	MT-5070FCA-65
最大印刷面積	500x600mm	650x600mm	500x600mm	650x600mm
最大網框尺寸	800x1100mm	1100x1100mm	800x1100mm	1100x1100mm
最小網框尺寸	800x800mm	800x800mm	800x800mm	800x800mm
入料寬度	200-520mm	500-650mm	200-520mm	500-650mm
放料座最大卷徑	Φ 500mm	Φ 800mm	Φ 500mm	Φ 800mm
放料氣壓軸外徑	Φ 75mm	Φ 75mm	Φ 75mm	Φ 75mm
收料座最大卷徑	Φ 500mm	Φ 800mm	Φ 500mm	Φ 800mm
收料氣壓軸外徑	Φ 75mm	Φ 75mm	Φ 75mm	Φ 75mm
印刷速度	420-700m/hr	420-700m/hr	420-700m/hr	420-700m/hr
行 程	750mm	750mm	750mm	750mm
原料厚度	0.025-0.25mm	0.025-0.25mm	0.025-0.25mm	0.025-0.25mm
定位精度	± 0.05mm	± 0.05mm	± 0.05mm	± 0.05mm
印刷（網版） 驅動馬達（伺服）	2kw	2kw	2kw	2kw
引取驅動馬達 （伺服）	0.75 kw	0.75 kw	0.75 kw * 2	0.75 kw * 2
放料座馬達	1 HP	1 HP	1 HP	1 HP
收料座馬達	1 HP	1 HP	1 HP	1 HP
引取輪真空馬力	1 HP	1 HP	1 HP * 2	1 HP * 2
氣浮輪馬力	1HP * 2	1½HP*2	N/A	N/A
真空箱馬達	¼HP	¼HP	¼HP	¼HP
空壓機（不含）	2 HP	2 HP	2 HP	2 HP
空氣壓力	5-7kg/cm²	5-7kg/cm²	5-7kg/cm²	5-7kg/cm²
放料機 (重量／尺寸)	350 KGS W1000xD1200xH1050(mm)	450 KGS W1100xD1400xH1250(mm)	350 KGS W1000xD1200xH1050(mm)	450 KGS W1100xD1400xH1250(mm)
主機 (重量／尺寸)	1300 KGS W2500xD1500xH2300(mm)	1400 KGS W2500xD1800xH2300(mm)	1300KGS W2500xD1500xH2300(mm)	1400 KGS W2500xD1800xH2300(mm)
收料機 (重量／尺寸)	350KGS W1000xD1200xH1050(mm)	450KGS W1100xD1400xH1250(mm)	350KGS W1000xD1200xH1050(mm)	450KGS W1100xD1400xH1250(mm)
複捲機 (重量／尺寸)	300KGS W700xD1100xH1050(mm)	400KGS W900xD1300xH1250(mm)	300KGS W700xD1100xH1050(mm)	400KGS W900xD1300xH1250(mm)
腳座 (重量／尺寸)	50KGS W2280xD440xH550(mm)	50KGS W2280xD440xH550(mm)	50KGS W2280xD440xH550(mm)	50KGS W2280xD440xH550(mm)
風車組 (重量／尺寸)	80KGS W1450xD900xH600(mm)	80KGS W1450xD900xH600(mm)	80KGS W1450xD900xH600(mm)	80KGS W1450xD900xH600(mm)
額定電力	220V-50/60Hz-Φ3-25A	220V-50/60Hz-Φ3-25A	220V-50/60Hz-Φ3-25A	220V-50/60Hz-Φ3-25A

，僅供參考，若變更恕不另行通知。

esigns are subject to change without prior notice

適用範圍

本機適合於紙張，PET，PC，鋁箔，FCCL等之軟性整捲材料之網版印刷。

適用產品如下：

- 1.熱轉印紙類。
- 2.特殊標籤類。
- 3.IMD。
- 4.銘牌和表面上光上色。
- 5.軟性電子材料印刷：如智慧卡，軟性顯示器，擴散板，軟性電路板，薄膜開關、醫療和防偽保全物品等。

Applications

This is specially-designed roll to roll cylinder screen printing machine for flexible stock, both transparent and non-transparent, in rolls such as: Paper, PET, PC, Aluminum Foil, FCCL and so on. These stocks can be used for the following products:

- 1.Heat transfers.
- 2.Specialized labels
- 3.IMD
- 4.Nameplates and graphic Overlays.
- 5.Flexible Electronics-Smart Card, Flexible Display, Diffusers, FPC (Flexible Circuits), Membrane Switch, Medical and Security products etc.

特性

- 1.刮刀，網版與圓滾筒單線接觸且夾角大，無靜電問題，故送料準確，不會偏移或蛇行，圓滾筒無吸氣孔，薄膜無凹陷問題適合色塊或網點印刷。
- 2.可連續印刷，重疊處小又不明顯。
- 3.本機採用PC based控制器，配合觸控式螢幕，操作簡易。
- 4.刮刀機構裝置採二顆伺服馬達驅動，永保刮刀之均勻壓力。
- 5.網版上方裝置雙 CCD 鏡頭，網版調校迅速方便。
- 6.刮刀兩側裝置雙 CCD 鏡頭，刮刀調校迅速方便。
- 7.上 CCD 量測自動校正系統，可線上量間距，每模補正，連續印刷準確（選購配備，限MT-5070FCA, MT-5070FCA-65）。
- 8.下 CCD 量測自動校正系統，兩面印刷準確（選購配備，限MT-5070FCA, MT-5070FCA-65）。
- 9.網版可移出機體，方便網版之清洗維護。
- 10.全程保持張力。
- 11.安全防護罩，確保人機安全。
- 12.收放料機構採用氣脹軸，確保原料不滑動，並附先進的對邊裝置套色準確且收放料整齊。
- 13.驅動方向採電眼，精確對位。
- 14.引取輪具真空吸附功能，可隨時確保印材之平直及適當張力。
- 15.收料機構採用先進聲納感測器，可精確感應透明或非透明印材。
- 16.上下及左右行程，採用精密線性滑軌。
- 17.網版及引取輪皆採伺服馬達驅動。
- 18.二種乾燥機供選擇：塔式氣浮乾燥機（加熱長度15M,25M,35M），冰水冷卻輪UV乾燥機（選購配備）。
- 19.沖孔裝置。

Features

- 1.The contact angle between squeegee, screen and cylinder is larger than flat bed model so the driving is smooth, accurate and unswerving due to few static. The cylinder has no vacuum hole on it so the film will not have dents due to vacuum and no color difference will be happened due to different thickness of inks. It is ideal for solid area and dot pattern printing.
- 2.Good for continuous printing as the overlap is unnoticeable.
- 3.User-friendly PC based control combined with touch screen monitor for maximum operation convenience.
- 4.The printing head is equipped with two servo motor for easy adjustment of pressure balance.
- 5.Equipped with two CCD camera for easy set up of the screens.
- 6.Equipped with two CCD camera for easy set up of the squeegee.
- 7.With CCD camera to sense the real position of the panel so that continuous printing can be possible in one pass (Optional attachments for MT-5070FCA and/or MT-5070FCA-65 only)
- 8.With CCD camera on the other side of the web for double sides printing even for opaque one. (Optional attachments for MT-5070FCA and/or MT-5070FCA-65 only)
- 9.Screen can be moved outside for easy cleaning.
- 10.Keep tension during the whole process
- 11.Safety guard provides extra safety for the operator and machine.
- 12.Winding and unwinding use air shaft to prevent slippage, and include advanced web guide for precision and neatness.
- 13.The take up roller features vacuum suction, ensuring smooth film surface and proper film tension at all times.
- 14.Equipped with photocell for the registration of driving direction.
- 15.Winding mechanism utilizes advanced sonar sensor for accurately sensing transparent and non-transparent film.
- 16.Precision linear motion guides are provided on vertical and horizontal slideways for extremely smooth and stable traverse.
- 17.Both of the driving of screen and take-up roller are equipped with servo motor for accurate and easy operation.
- 18.Two dryers are available. Air cushion Hot Air Tower Dryer (heating length: 15M,25M,35M) and UV dryer with cooling roller. (Optional)
- 19.Punching device.

SKYHILL

明太網版印刷機械股份有限公司
MING TAI SCREEN PRINTING MACHINE CO., LTD.
42745 台灣省台中市潭子區中山路一段 218 號
NO. 218, SEC. 1, CHUNG SHAN RD.,
TAN TZU DIST , TAICHUNG CITY 42745, TAIWAN.
TEL: +886-4-2532-7901 (REP) FAX: +886-4-2532-7916
E-mail: sales@skyhill.com.tw

www.skyhill.com.tw