ATMALINE RR5060/S

Fully Automatic Roll-To-Roll Screen Printing Line



"Inspection Machine", "Stationary Placement", and "Drying Section" mentioned above which are optional equipments. Above layout is provided for reference only, the actual printing line will be planned in according to actual spec requirement.



產品形象銀質獎　台灣精品成就獎　創新研究獎　國家磐石獎　國家品質獎　通過ISO9001 ISO14001　小巨人獎　歐洲安全規格認證通過

東遠精技工業股份有限公司
ATMA CHAMP ENT. CORP.

33383 桃園市華亞科技園區華亞二路58號
No.58, Huaya 2nd Rd., Guishan Dist.,
Taoyuan City 33383, Taiwan (R.O.C.)
TEL:+886-3-3278588　Web:www.atma.com.tw
FAX:+886-3-3278955　Email:atma@atma.com.tw

APPLICATION :

This model is suitable for printing various flexible coiled materials, such as Tetoron, membrane switch, blood sugar tester, heat transfer, labels, sticker, decals and so on.

CHARACTERISTIC :

Fully automatic inline process : automatic unwinding infeed →screen printing →conveyor dryer (option) →automatic rewinding to attain automatic continuous production.

Features :

- Mechanism of Winding / Unwinding coiler adopts inflation shaft to avoid material sliding and facilitate loading, there are 3 inch (standard) and 6 inch inflation shaft sleeve (option) selectable.
- Transportation way adopts servo power winding to collocate with material correction system, tension control adopts servo tension control
- Servo driven printing, least malfunction, printing with solid torque, fully digitalized control, full stroke extreme stable speed motion.
- Sensor is used to detect alignment to collocate with automatic screen micro adjustment, attain precise registering printing function.
- Equalized air pressure control the print head : squeegee / flood coater digital equalizing air pressure system control, enable to preset air pressure (3-62 kgf) on touch-screen panel.
- High precise leveling : Aluminum alloyed thick plate is machined precisely and hardness treatment to prevent scratching substrate, table flatness precision enable to attain ±0.02mm.
- Easy operation : the advanced IPC is integrated control, colored touch-screen panel + colored LCD to provide various functional parameters setting and instant operating / monitor, convenient operation to fulfill perfect requirement for digitalization, standardization, humanization.
- Safety protection : equipped with error diagnosis, safety restoration, E-stop switch, three color lamp, etc. comprehensive safety protection.
- Various conveyor dryer can be selected (option).

堅·持·最·高·品·質·承·諾

SPECIFICATION :

1) AT-RR5060/S Fully Automatic Roll-to-Roll Screen Printer (including winder / unwinder)

Item	Model	AT-RR5060/S screen printer
01	Machine dimension	4430*1400*2000mm
02	Machine weight	1,660 kgs
03	Air pressure source	5～7 kg/c ㎡
04	Power source	3-phase / 380V / 60Hz
05	Air consumption	64 L/min
06	Printing table height	1000 +30 mm
07	Max printing area	500x600 mm
08	Working table size	580x780 mm
09	Vacuum area	490x740 mm
10	Min vacuum area	350x400 mm
11	Max frame O/D size	800x1000 mm
12	Min frame O/D size	600x800 mm
13	Frame height	25~40 mm
14	Screen up down mode	Ball screw rod + hollow shaft gear box + servo motor + brake
15	Peel-off height	MAX : 20mm
16	Screen micro adjustment X/Y	±10 mm/±10 mm
17	Max substrate width	520mm
18	Min substrate width	350mm
19	Productivity (full speed full stroke)	17 pcs/min
20	Printing speed	50~1070 mm/sec
21	Squeegee skew angle	20° ± 10°
22	Flood coater skew angle	45° ± 5°
23	Printing pressure	3~62 Kgs
24	Infeed direction	Left-in right-out
25	Infeed mode	Air inflation shaft unwinding

26	Loading structure	3”air inflation shaft sleeve x 2 (feeding & delaminating, one for each)
		6”air inflation shaft sleeve (option)
27	Transmission mode	Used servo motor unwinding
28	Edge following mode	Guiding corrector
29	Tolerance of edge following	±10 mm
30	Tension control mode	Gravity wheel is associated with air cylinder to control tension & servo tension control
31	Unwinding tension	0.5~3.0 kgf
32	Unwinding speed	30~300 mm/sec
33	Cutting / laminating device	yes
34	Electrostatic eliminator (option)	Anti-static bar (600mm lenght)
35	Cleaning device (option)	Cleaning roller (533mm length) + adhesive paper roller
36	Accumulator	Servo power unwinding
37	Operation interface	Proface 7inch touch-screen, 100 groups parameters setting

堅·持·最·高·品·質·承·諾

2) AT-TIO5050　IR + Hot Air Dryer

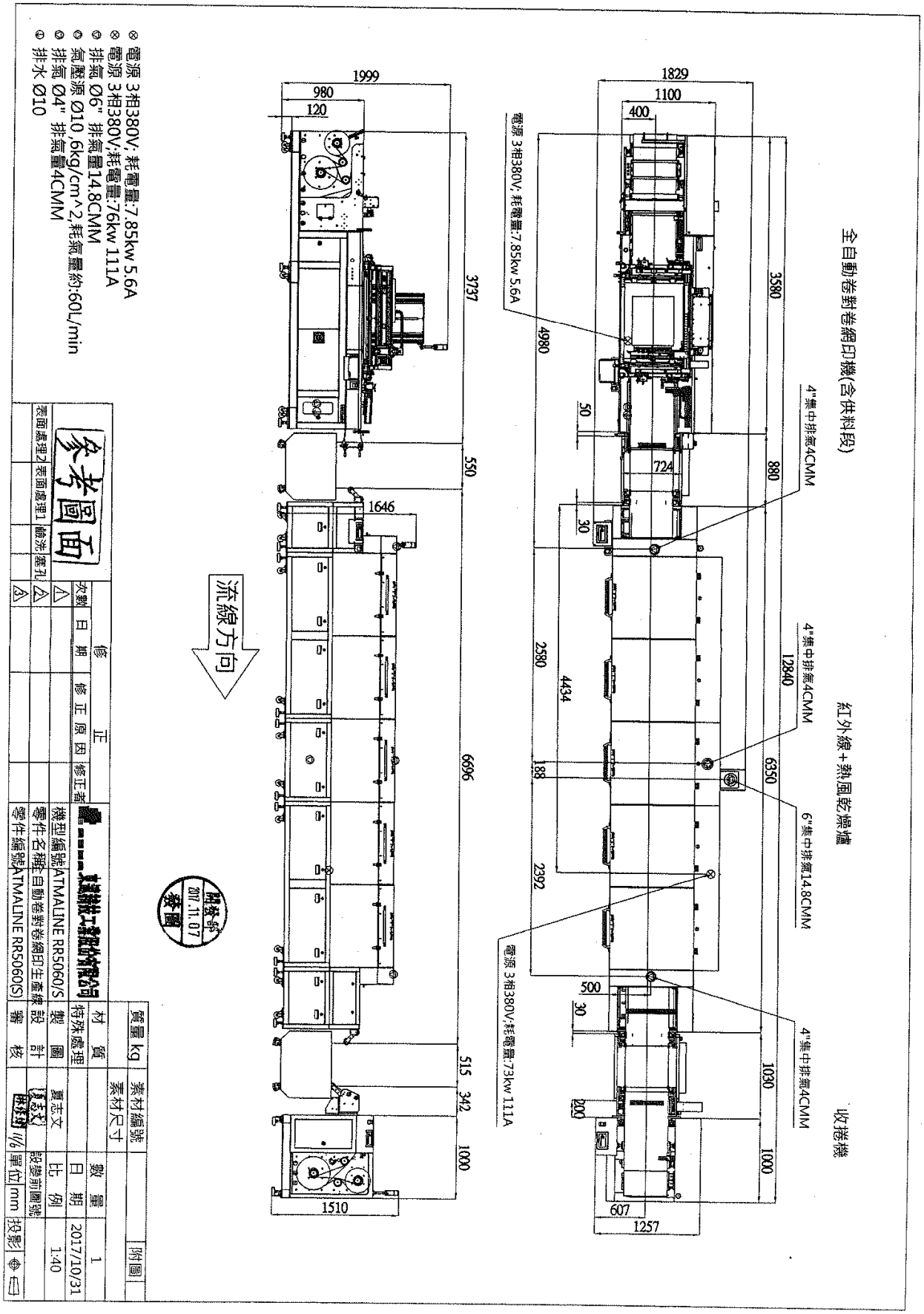
Item	Model	AT-TIO5050
01	Machine dimension L×W×H	6730L×1620W×1420H mm (heating length：　5000 mm)
02	Machine weight	2,424 kgs
03	Power source	3-phase / 380V / 60Hz
04	Power consumption	50kw
05	Transportation mode	Teflon conveyor web (width 600mm)
06	Coil material width	350~520mm
07	Transmission mode	Sensitive motor + reducer transmits rubber coated roller
08	Transportation height	1000+30mm
09	Transportation direction	Left-in Right-out
10	Transportation speed	Line speed : 2~18M　/ MIN
11	Heating mode	IR (infra red heater) + hot air
12	Heating section	5 section (each section 1M)
13	Transportation length	Equipment length about 6.7 M
14	Air venting mode	Internal hot air circulation from top to bottom
15	Material	Thermal insulation inner layer is used SUS 430 Thermal insulation external layer is used SS41 lacquer coating
16	Temperature control system	Used SCR to control IR SSR controls hot air circulation
17	Temperature range	Use temperature 80℃~120℃　MAX:150 ℃
18	Circulation system	7.5 inch fan cycle
19	Uniform temperature	Setting temperature within ±3%
20	Operation interface	Proface 7 inch touch-screen, 100 groups of parameters setting
21	Public facility heat exhaustion	4 inch heat exhaustion x 3 locations 6 inch exhaust vent x 1 location
22	Protection device	(1) Temperature controller over temperature setting, exceed setting temperature 10℃ to shut off heating. (2) Error message displayed on touch-screen, once three color lamp, buzzer warning, E-stop switch activated

堅·持·最·高·品·質·承·諾

3) AT-RW5060　Fully Automatic Roll-to-Roll Re-winder

Item	Model	AT-RW5060
01	Machine dimension L×W×H	2000×1267×1510mm
02	Machine weight	500 kgs
03	Air pressure source	5～7 kg/c ㎡
04	Power source	3-phase / 220V / 60Hz
05	Transportation direction	Left-in right-out
06	Loading structure	3”air inflation shaft sleeve x 2 (winding & foiling, one for each)
		6”air inflation shaft sleeve (option)
07	Protector membrane Paste (option)	3”air inflation shaft 6”air inflation shaft sleeve (option)
08	Coil material width	350~520mm
09	Transmission mode	90℃vacuum wheel winding (used servo motor to drive)
10	Vacuum wheel diameter	∮164mm
11	Re-winding speed	30～300 mm/sec
12	Air venting mode	Ring blower
13	Notch finder mode	Guider + Structural formula EPC　±10mm
14	Tension control mode	servo tension control
15	Winding tension	2～5 kg
16	Operation interface	Proface 7inch touch-screen, parameters setting
17	Cleaning device (option)	Cleaning roller (600mm length)
18	Protection device	Emergency stop

Three-view Diagram (ATMALINE RR5060/S)



⊗ 電源 3相380V; 耗電量:7.85kw 5.6A
⊗ 電源 3相380V;耗電量:76kw 111A
⊗ 排氣 Ø6" 排氣量14.8CMM
⊗ 氣壓源 Ø10 .6kg/cm^2,耗氣量約:60L/min
⊗ 排氣 Ø4" 排氣量4CMM
⊗ 排水 Ø10