Glass **Screen Printer**

Committed To Top Quality

ATMA

INDEX

Innovative Value, Outstanding Excellence

國家品質獎
NATIONAL QUALITY AWARD

SILVER NATIONAL AWARD OF EXCELLENCE

SYMBOL OF TAIWAN EXCELLENCE

NATIONAL INNOVATION RESEARCH AWARD

NATIONAL AWARD OF SME

CE CERTIFIED

ISO 9001 ISO14001 CERTIFIED

NATIONAL LITTLE GIANT AWARD

ATMA deeply cultivated in Research and Development for screen printing technology over 30 years, granted innovative leadership in the industry with excellent reputation and continuous appraisal. Acquired countless domestic and overseas awards for product design, achieved more than 100 patents in Taiwan and overseas from entry-level Manual Screen Printing Table to upscale Opto-electric Fully Automatic Screen Printer.

Further research to develop Solar Cell Screen Printer, always leading to the extreme research and development of screen printing, conducts the trend of technology to serve as a role model of learning in the industry.

Wide range of products, screen printing is linked up with our daily life, applied in the Communication, Computer products, Opto-electronics technology, Solar Energy, etc. and other diverse of professional areas.

▲ Future ATMA Headquarter

[Vision]

Professional Innovation
Aiming to achieve benchmark enterprise of foremost global screen printing technology

[Mission]

- Leading printing technology to create the trend of fully automatic, least-man, unmanned production.
- People-oriented is the core value, providing a learning environment to partners attaining self-value
- Thorough development in Taiwan, global operations, sustainable management toward to harmony and happiness enterprise

[Awards]

- Achieved Patent of Invention from USA, Taiwan, China, UK, and more than 100 of new patent from many different countries
- Awarded "Taiwan Excellence" continuously for years, accumulated more than 80 different models

[Company Profile]

Founded: 25thJuly, 1979
Presdient: Mr. T.C. Chen
Capital: USD 6.9 Million
Factory Area: 15,000 m^2
Employee: 400
Certifications: ISO 9001, ISO 14001, CE

[MANAGEMENT PHILOSOPHY]

誠
SINCERITY
Treating people
with sincerity

信
TRUST
Running business
with trust

勤
DILIGENCE
Practicing work
with diligence

和
HARMONY
Handling matters
with harmony

Trust!

Living application for screen printing to create infinite possibility

Suitable for precise printing on glass for the following industries

Architecture glass : curtain partition, furniture, fine art door and window, bath room
Automotive glass : front / back windshield, triangle side window (irregular shape), skylight
Appliance glass : refrigerator door, cook top, micro wave oven, vertical air conditioner
Housewares glass : dinner plate, lampshade, decoration

ATMA®

AT-80P / AT-120P
AT-160P

Electric Flat Screen Printer

Suitable for semi-automatic screen printing on medium size glass, such as Cook-top Ceramic Glass, Lighting Decorative Glass, Tableware Glass, Photo Frame Glass etc.

- Patented fast and silent motor-driven screen vertical up down movement
- Print head elevating device facilitates to replace squeegee / flood coater / screen and cleaning ink
- Jointed type frame holder design to strengthen structure for high pressure printing
- Digitalized touch-screen to display selectable English / Chinese for quick selection, setting and retrieve
- Equipped emergency-stop pressing bar and button, safety bars for intensive protection

TAIWAN EXCELLENCE

(Depth x Width)	AT-80P	AT-120P	AT-160P
Table size (mm)	700 x 900	800 x 1400	800 x 1700
Max printing area (mm)	600 x 800	700 x 1200	700 x 1600
Max frame O/D size (mm)	900 x 1100	1000 x 1500	1000 x 1900
Substrate thickness (mm)	0 - 25	0 - 25	0 - 25
Productivity (P/H, full speed full stroke)	570	480	420
Power source	3Φ, 220V/380V, 50/60Hz		
Power consumption (kW)	2.6	3.3	4.1
Air pressure (kg/sqcm)	5 - 7	5 - 7	5 - 7
Air exhaustion (L/cycle)	3	3	3
Machine dimension (mm, depth x width x height)	1500 x 1300 x 1700	1900 x 1400 x 1750	2300 x 1400 x 1750
Machine weight (kg)	685	980	1310

(Modification may be made without prior notice)

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AT-60PD / AT-70PD

Digital Electric Flat Screen Printer

Suitable for semi-automatic screen printing on small size glass, such as Tableware Glass, Decorative Glass, Lighting Decorative Glass etc.

- PLC control, selectable 6 printing modes to satisfy various printing requirements
- Jointed type frame holder to strengthen structure for high pressure printing
- Digitalized touch-screen to display selectable English / Chinese for quick selection, setting and retrieve
- Auto display error messages to guide certainly for quick troubleshooting
- Equipped peel-off device to prevent sticky mesh after printing

(Depth x Width)	AT-60PD	AT-70PD
Table size (mm)	500 x 700	700 x 800
Max printing area (mm)	405 x 600	600 x 700
Max frame O/D size (mm)	700 x 950	900 x 1050
Substrate thickness (mm)	0 - 120	0 - 120
Productivity	600	570
(P/H, full speed full stroke)		
Power source	3Φ, 220V/380V, 50/60Hz	
Power consumption (kW)	1.54	2.07
Air pressure (kg/sqcm)	5 - 7	5 - 7
Air exhaustion (L/cycle)	1.53	2.1
Machine dimension	1300 x 1060 x 1600	1400 x 1260 x 1650
(mm, depth x width x height)		
Machine weight (kg)	485	593

(Modification may be made without prior notice)

AT-80P/B

Electric Flat Screen Printer with Belt Take-off

Suitable for 3/4 automatic screen printing on medium size glass, such as Microwave Oven Glass, Cook-top Ceramic Glass, Fine Art Door & Window Glass etc.

- Patented fast and silent motor-driven screen up down movement
- Print head elevating device facilitates to replace squeegee / flood coater / screen and cleaning ink
- Jointed type frame holder to strengthen structure for high pressure printing
- Equipped automatic discharge device to transport substrate to dryer to raise productivity
- Equipped emergency-stop pressing bar and safety bar

(Depth x Width)	AT-80P/B
Table size (mm)	700 x 900
Max printing area (mm)	600 x 800
Max frame O/D size (mm)	900 x 1050
Substrate thickness (mm)	0 ~ 25
Productivity	480
(P/H, full speed full stroke)	
Power source	3Φ, 220V/380V, 50/60Hz
Power consumption (kW)	2.7
Air pressure (kg/sqcm)	5 ~ 7
Air exhaustion (L/cycle)	3.1
Machine dimension	1800 x 1300 x 1700
(mm, depth x width x height)	
Machine weight (kg)	840

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AT-GD715
AT-GD720

Semi-automatic Flat Glass Screen Printer

Dedicated to printing on medium size glass, such as Refrigerator Door Glass, Bathroom Glass, Fine Art Door & Window Glass etc.

- Motor-driven printing + precise guide leading, setting stroke limit for stable printing
- Micro adjustment device is equipped onto screen carrier structure
- Unique design motor-driven screen vertical up down, fast and stable motion
- E-stop Safety Bar + Discharge Weight System + Interlocked Error Diagnosis for comprehensive protection

(Depth x Width) AT	GD715	GD720
Max printing area (mm)	700 x 1500	700 x 2000
Max frame O/D size (mm)	1000 x 1820	1000 x 2320
Substrate thickness (mm)	3 - 25	3 - 25
Productivity (P/H, full speed full stroke)	280	240
Machine dimension (mm, width x depth x height)	3980 x 1400 x 1650	4980 x 1500 x 1650
Machine weight (kg)	1600	1880

(Modification may be made without prior notice)

ATMATIC GD715
ATMATIC GD720

Fully Automatic Flat Glass Screen Printer

Suitable for fully automatic screen printing on medium size glass, such as Refrigerator Door Glass, Bathroom Glass, Fine Art Door & Window Glass etc.

- Online feed-in (centered registering) + Printing with pin alignment + Unloading
- Equipped 4+8 adjustable automatic retractive registration pins on table
- Motor-driven printing + precise guide leading, setting stroke limit for stable printing
- Micro adjustment device is equipped onto screen carrier structure
- Digital control setting thru touch-screen with complete features
- Unique design motor-driven screen vertical up down, fast and stable motion
- E-stop Safety Bar + Discharge Weight System + Interlocked Error Diagnosis for comprehensive protection

(Depth x Width) ATMATIC	GD715	GD720
Max printing area (mm)	700 x 1500	700 x 2000
Max frame O/D size (mm)	1000 x 1820	1000 x 2320
Substrate thickness (mm)	3 - 20	3 - 20
Productivity (P/H, full speed full stroke)	300	240
Machine dimension (mm, width x depth x height)	3980 x 1400 x 1650	4980 x 1500 x 1650
Machine weight (kg)	1800	2079

(Modification may be made without prior notice)

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ATMATIC 60PD
ATMATIC 70PD

Automatic Flat Glass Screen Printer

Suitable for automatic screen printing on small size glass, such as Tableware Glass, Photo Frame Glass, Decorative Glass etc.

- Online feed-in + edge alignment + printing + unloading
- Equipped two sets of adjustable nesting bar with registering to facilitate change big and small size of substrate
- Electromagnet is equipped for shuttle table precise positioning
- Equipped two adjustable retractive registration pins on table
- Digital control setting thru touch-screen with complete features

Options
☐ Auto uninterrupted feeder / Stacker   ☐ UV dryer at rear section

(Depth x Width) ATMATIC	60PD	70PD
Max printing area (mm)	400 x 600	600 x 700
Max frame O/D size (mm)	700 x 880	850 x 980
Substrate thickness (mm)	2 - 20	2 - 20
Working height (mm)	950 + 30	950 + 30
Productivity (P/H, full speed full stroke)	480	450
Power source	3Φ, 220V/380V, 50/60Hz	
Power consumption (kW)	2.96	4.42
Air pressure (kg/sqcm)	5 - 7	5 - 7
Air exhaustion (L/cycle)	2.7	2.7
Machine dimension (mm, depth x width x height)	3090 x 1090 x 1870	3390 x 1280 x 1870
Machine weight (kg)	1255	1460

(Modification may be made without prior notice)

ATMATIC 70PD/W

Automatic Flat Glass Screen Printer (Walking Beam)

Suitable for automatic screen printing on automotive triangle side window (irregular shape), skylight, etc.

- Online feed-in + edge alignment + printing + unloading
- Servo motor drives the print-head to obtain solid printing torque and digital control extreme stable motion
- Walking beam structure for fast transportation, max. production capacity 800P/H
- Air pressure sensor is used for two sets of walking beam to examine vacuum suction value
- Reflection type sensors are equipped at front / back side to check inlet and outlet
- Nesting bars are fixed on table top by magnets

(Depth x Width) ATMATIC	70PD/W
Max printing area (mm)	600 x 700
Min printing area (mm)	100 x 150
Max frame O/D size (mm)	850 x 1200
Substrate thickness (mm)	2 - 6
Productivity (P/H, full speed full stroke)	800
Power source	3Φ, 220V/380V, 50/60Hz
Power consumption (kW)	4.6
Air pressure (kg/sqcm)	5 - 7
Air exhaustion (L/cycle)	3.0
Machine dimension (mm, depth x width x height)	3440 x 1320 x 1900
Machine weight (kg)	1415

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ATMATIC GS1216(6)
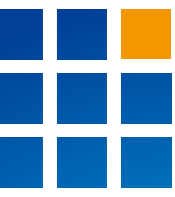# ATMATIC GS1225(6)

Fully Automatic Glass Screen Printer

Suitable for fully automatic screen printing on large size glass, such as Automotive Glass, Curtain Partition Glass etc.

transfer conveyor platform（optional)

inspection station
（optional)

- Consist of centering conveyor platform + 4-post type screen printer, auto receiving → centering → feed-in → alignment → printing → unloading
- Fully or 3/4 automatic process, substrate from loader or loading manually, and transport to dryer after printing
- Transporting speed of both units is synchronized, and equipped pneumatic elevating bridge for convenient adjustment and cleaning
- Unique auto registering system with constant pressure can be adjusted freely for different size of substrate without damage
- Air locking screen frame / frame holder / screen micro-adjustment for fast setup and alignment
- Equalizing control printing/flood coating pressure for instant printing, unnecessary repeat test-print and adjustment to obtain excellent printing quality
- Comprehensive safety devices : emergency-stop buttons, safety bar, interlinked program, error-diagnose

(Depth x Width) ATMATIC	GS1216 (6)	GS1225 (6)
Max printing area (mm)	1200 x 1600	1200 x 2500
Min printing area (mm)	400 x 500	700 x 1000
Max frame O/D size (mm)	1700 x 2000	1750 x 3200
Substrate thickness (mm)	3 - 19	3 - 25
Productivity (P/H, full speed full stroke)	210	150
Power source	3Φ, 220V/380V, 50/60Hz	
Power consumption (kW)	9	9
Air pressure (kg/sqcm)	5 - 7	5 - 7
Air exhaustion (L/cycle)	15.3	15.9
Machine dimension (mm, depth x width x height)	7470 x 2350 x 1700	7200 x 3980 x 1700
Machine weight (kg)	4400	5600

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ATMATIC GS1322/W

## Fully Automatic Glass Screen Printer (Walking Beam)

Suitable for automotive windshield printing process such as Black margin, Logo, Busbar etc. (fully automatic screen printing)

- Walking beam structure for fast transportation and high productivity
- Alignment sides with light/heavy pressure to assure each glass to be aligned to right position and prevent breaking glass
- Auto elevating nesting bar for perfect edge-to-edge printing
- Equipped dual peel-off servo motors to synchronize with printing speed, and can offset screen accuracy
- Drawable frame holder device to facilitate screen cleaning
- Automatic & pneumatic squeegee holder/flood coater clamping device for easier replacement
- Multiple printing modes, 1 to 5 times printing can be preset to achieve different printed ink thickness
- Equipped safety light curtains, emergency-stop buttons, safety bars for intensive protections

(Depth x Width) **ATMATIC**	**GS1322/W**
Max printing area (mm)	1300 x 2200
Min printing area (mm)	400 x 800
Max frame O/D size (mm)	1800 x 2800
Substrate thickness (mm)	1.4 - 12
Productivity (P/H, full speed full stroke)	300
Power source	3Φ, 220V/380V, 50/60Hz
Power consumption (kW)	8
Air pressure (kg/sqcm)	5 - 7
Air exhaustion (L/cycle)	26.9
Machine dimension (mm, depth x width x height)	8400 x 2270 x 1700
Machine weight (kg)	6720

(Modification may be made without prior notice)

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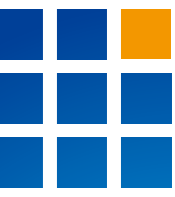
ATMALINE GS710

Fully Automatic Digital Control Screen Printing Line

Dedicated to fully automatic screen printing on glass for cook top, micro wave oven, light ware decoration, etc.

- Squeegee / flood coater are driven by guide rail cylinder, uniform ink layer printing
- Driven directly by Servo motor, strong printing torque, digital control full stroke with stable motion
- Delay printing function, printing light or heavy can be controlled separately, prevent mesh damage to lose tension
- Inlet section adopts PEEK material clapper, without scratching glass to ensure correction
- Accumulator adopts German linear guide rail, operate in coordination with Laser sensor, precise registration
- Quality inspection platform, number of inspection can be set thru touch-screen, effectively control quality (enclosed backlight)

(Depth x Width) **ATMALINE**	**GS710**
Max. printing area (mm)	750 x 1050
Min printing area (mm)	200 x 200
Max frame O/D size (mm)	1150 x 1350
Substrate thickness (mm)	3 - 6
Productivity (P/H, full stroke full speed)	400
Power source	3Φ, 220V/380V, 50/60Hz
Power consumption (kW)	8.5
Air pressure (kg/sqcm)	5 - 7
Air exhaustion (L/cycle)	25
Machine dimension (mm, width x depth x height)	3290 x 1700 x 2190
Machine weight (kg)	4950

(Modification may be made without prior notice)

AT-GP710 Correcting Conveyor x2 + AT-GA710 Accumulating Station + AT-GS710 Automatic Screen Printer + AT-GT710 Transfer Conveyor + AT-GI710 Inspection Station + AT-GC710 Conveyor

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ATMALINE GS1016

Fully Automatic Glass Screen Printing Line

Dedicated to print logo onto automotive front / back windshield, Busbar Silver line onto back windshield. Also, collocating with large glass black frame, defogging specialized automatic screen printing line.

- Walking beam structure, rapid transport and positioning to raise productivity
- Special made structure for dual printing head, enable to print two images onto a glass simultaneously
- Substrate can be slide freely onto universal rolling balls, registration pins on sliding groove facilitate for adjustment
- PU material roller type conveyor is used for printing table and conveyor dual function
- Inspection number and defective position are marked after AOI scanning
- Fully automatic screen printing line reduces manpower to raise yield rate

Options
☐ AOI automatic inspection machine

☐ Work flow accumulator

Option
Linear Scanning AOI Inspection Machine

Collocated on automatic production line, specialized to inspect the residue ink, pin hole, ink spilled out / shortened at edge, spot, legend and so on automatic inspection.

(Depth x Width) ATMALINE	GS1016
Max printing area (mm)	150 x 250 (dual printing head)
Printing speed (mm/sec)	50 -1100
In/ outlet conveyor height (mm)	930+40
AOI field of view (mm)	1070
Resolution accuracy (μm)	33
Min inspected defective area (mm)	0.50
Max frame O/D size (mm)	400 x 400 (dual printing head)
Substrate thickness (mm)	3 - 4
Productivity (P/H, full speed full stroke)	300
Power source	3Φ, 220V/380V, 50/60Hz
Power exhaustion (kW)	4.9
Air pressure (kg/sqcm)	5 - 7
Air consumption (L/cycle)	5.3
Machine dimension (mm, width x depth x height)	7800 x 3040 x 2300 (Vertical direction)
	9280 x 1800 x 2250 (Transverse direction)
Machine weight (kg)	8870

(Modification may be made without prior notice)

AT-CA1016 Linear Scanning AOI Inspection Machine
+ AT-GS15D Automatic Glass Screen Printer
+ AT-GT1216 Transfer Conveyor Platform
+ AT-GI1216 Quality Inspection Platform
+ IR Dryer
+ AT-GA1016 Accumulator
+ AT-GT1216 Transfer Conveyor Platform
+ AT-GI1216 Quality Inspection Platform

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Modular Supply Complete Fully Automatic Flat Glass Screen Printing Line,Each module function as listed below

(see drawing)
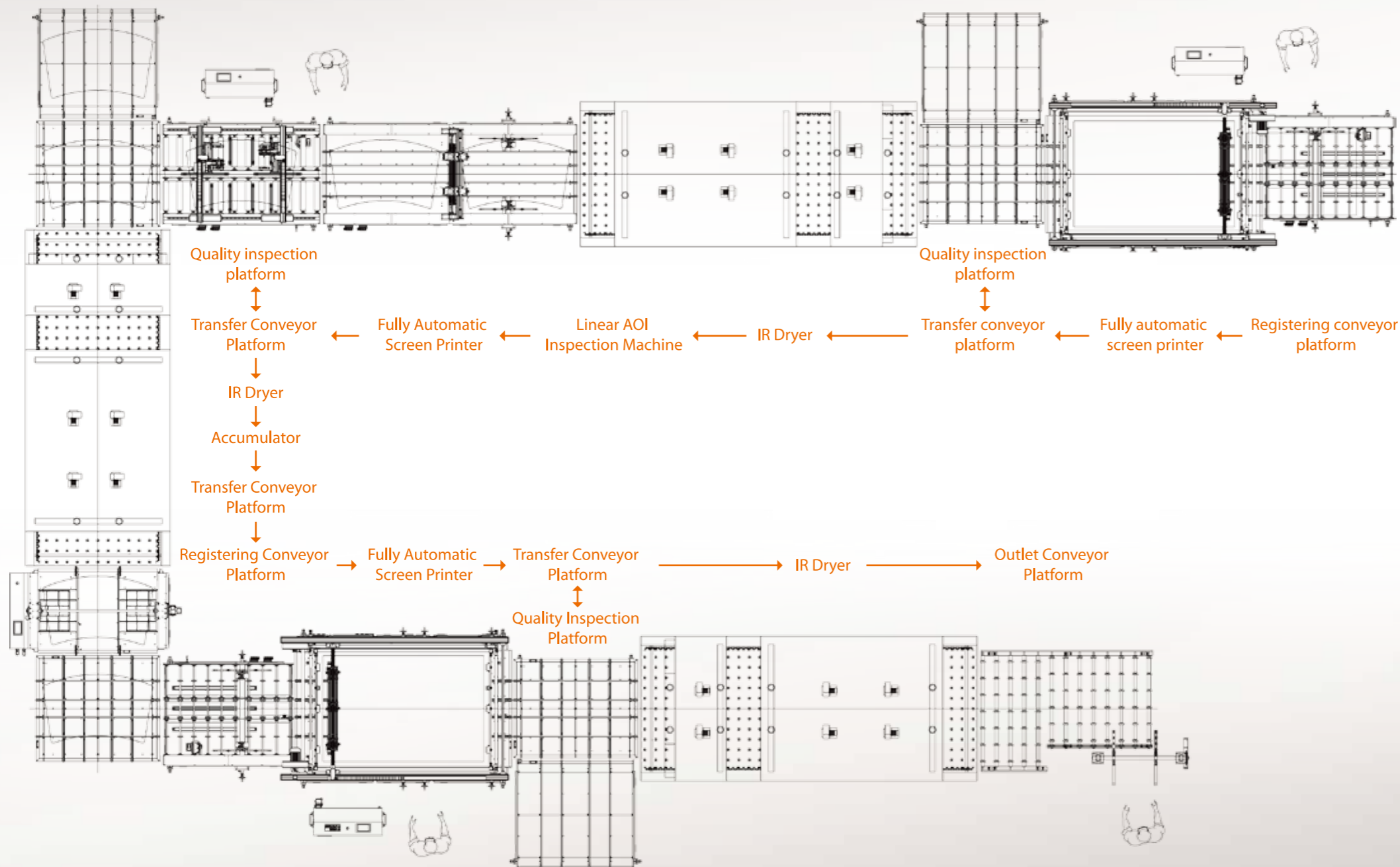
Registering conveyor platform receive incoming glass from upstream station to make centered registration.

Fully automatic screen printer (1st station) implement screen printing black frame, spot, logo.

Transfer conveyor platform transport in transverse direction to IR Dryer.

Quality inspection platform human visual examination whether there is defective printing (enclosed illuminant) to deal immediately.

IR Dryer (1st station) drying after the first printing.

Linear AOI Inspection Machine examine every items of defective screen printing, NG piece is not printed and removed out. Note : inspection norm is defined in according to customer requirement.

Fully Automatic Screen Printer (2nd station) screen printing Busbar.

Transfer Conveyor Platform transport in transverse direction to IR dryer.

Quality Inspection Platform human visual examine whether there is defective screen printing (enclose illuminant) to deal immediately.

IR Dryer (2nd station) drying after second printing.

Accumulator when screen printer behind is stopped temporary, glass inside dryer will be sent to Accumulator, and will be re-sent out until screen printer back to operation.

Transfer Conveyor Platform transport in transverse direction to automatic registering platform.

Fully Automatic Screen Printer (3rd station) printing defogging bus bar.

Transfer Conveyor Platform transport in transverse direction to IR dryer.

Quality Inspection Platform human visual examine whether there is defective screen printing (enclosed illuminant) to deal immediately.

IR Dryer drying after the third printing.

Outlet Conveyor Platform substrate is discharged onto platform to complete three printing steps.

Above modules can be matched freely a complete line in according to requirement

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IR Conveyor Dryer

* D211 (180IR-H)

- ● Double thermal insolating layer ensures temperature inside oven not leakage
- ● Micro computer P.I.D temperature control table is accommodated to SCR constant temperature controller
- ● Cool air outlet with plenty groups of V-shaped outlet structure, injection is pressurized to speed up drying.
- ● Equipped with motor for exhaust gas emission
- ● Equipped with hot air insolating section to prevent hot air getting into cooling section
- ● Cool air section is accommodated to refrigerator (equalized type) to speed up lower substrate temperature efficiently
- ● Thermal insolating cover of each section hot air box / cool air box equips with 4 sets of uplift cylinder to facilitate maintenance and lamp replacement
- ● All electric and pneumatic components are correspondence with CE certified products

* D211 (180IR-H)

Drying temperature range	room temperature ~ 150°C (assigned by requirement)
Outlet glass temperature	40°C
Medium wave IR quartz lamp	2kW x 24 pcs, total lamp length 840 mm
Cooling air blow motor	10HP / 1 Set
Cooling air exhaust motor	5HP / 1 Set
Cooling refrigerator (option)	120000 BTU x 1 Set
Oven inlet section	500
Oven inlet height	90
Oven inlet width	1760
IR heating section	1000 x 1 Section
Hot & cool air transition section	500
Cooling section length	2500 x 1 Section
Outlet section length	500
Conveyor belt flat surface height	880 + 50
Machine dimension	5000 x 2060 x 1500

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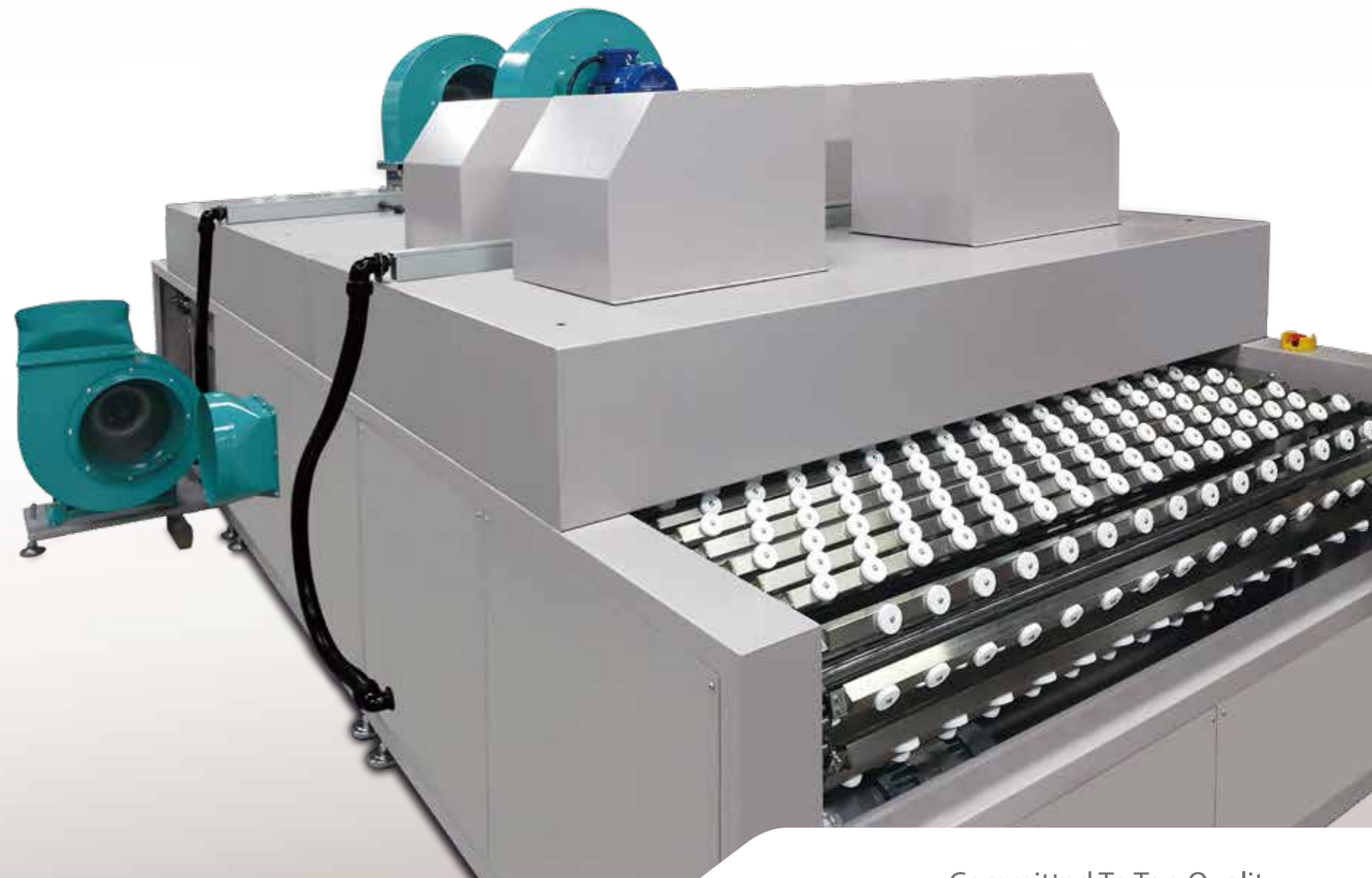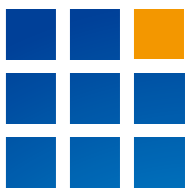
Peripheral Equipment
Screen Printing Auxiliary Accessories

Additional stretching screen making / screen printing auxiliary equipment, welcome for enquiry !

Screen mesh fabric stretcher / exposure unit / stencil dryer / wash booth / adhesive cleaning device / UV, IR dryer / Silence air compressor / Germany RKS solvent assistance, anti-static squeegee rubber

AT-S100
AT-S150 / AT-S200

Automatic Squeegee Sharpener
AT-S model series

Specialized in grinding squeegee straight and sharp to assure printing effect

- Linear guide rail leading, excellent straightness
- Quick holding squeegee, adjustable height for grinding
- Adopt Diamond wheel, automatic reverse, excellent grinding effect
- Adjustable grinding wheel rotation speed, depth, stroke and angle
- Equipped with vacuum suction device to maintain working environment clean

	AT-S100	AT-S150	AT-S200
Grinding stroke (mm)	1000	1500	2000
Grinding angle (°)	0 - 45	0 - 45	0 - 45
Machine dimension (mm)			
Width	1660	2160	2660
Depth	600	600	600
Height	1280	1280	1280
Weight (kg)	267	305	350

(Modification may be made without prior notice)

TAIWAN EXCELLENCE

AT-C1012D / AT-C1216D
AT-C1620D / AT-C2030D

Digital Automatic Emulsion Coating Machine

Specialized in uniform coating emulsion onto screen mesh

- Motor driven stable coating uniform thickness layer
- Frame holding clamp can be removed freely to match various frame size
- Frame locked / released by foot switch controlling for convenient operation
- Single / double sides coating, selectable diverse modes
- Pressure / number of coating front / back side can be set separately
- Memorized 100 groups of setting mode

(depth x width)	AT- C1012D	AT- C1216D	AT- C1620D	AT- C2030D
Max frame O/D size (mm)	1050 x 1250	1250 x 1650	1650 x 2050	2050 x 3050
Frame thickness (mm)	20 - 45	20 - 45	20 - 45	20 - 45
Machine dimension (mm)	1880x510x1880	2080x510x2280	2480x510x2680	2880x510x3680
Weight (kg)	340	360	500	550

(Modification may be made without prior notice)

AT-MIX7V

INK Mixer

Specialized in uniform mixing ink and other additive

- Seal can vibrating to mix, operating stable and silence
- Quick clamping ink can to facilitate operation
- Closed chamber, intensive safety guarding
- Enclosed vacuum extraction, rapidly eliminate air bubble

	AT-MIX7V (Vacuum model)
Max capacity (kg)	7 (in 1 can)
Machine dimension (mm)	52x73x81
Weight (kg)	125

(Modification may be made without prior notice)

AT-LM4

Stirring Ink Mixer

Specialized in in uniform ink mixing and other additive

- Can opened stirring mixing, simple operation
- Three sections clamping to hold the ink can, fast stable
- Infinite adjustment ink can rotation
- Large and small stirrer can be replaced

	AT-LM4
Max capacity (kg)	4 (in 1 can)
Machine dimension (mm)	31x27x40
Weight (kg)	20

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