ATMA GLASS PRINTING LINE
SCREEN PRINTERS & AUXILIARY EQUIPMENT

Digital Fully Automatic Glass Panel Screen Printing　　ATMALINE GS Series

Supplying a whole line for automatic glass panel screen-printing in modular concept, each module functions as (referred to drawing):

Correcting Conveyor　　receives glass panel from dryer ahead and corrects its position, then sends it to next station.

Accumulating Station　　accumulates panels when Screen Printer behind stops, then sends them to Screen Printer when it works again.

Correcting Conveyor　　receives panel from Accumulating Station ahead and corrects it, then sends it to Automatic Screen Printer behind.

Automatic Screen Printer　　receives panel from conveyor ahead, automatically registers and prints it, then sends it to next station. ATMATIC GS series is adopted as standard(see inside page), with free-standing Electric Control Box to integrate whole-line control.

Transfer Conveyor　　receives the printed panel from Screen Printer, and sends it to next station for drying or transfer to Inspection Station for quality check, afterward sends it back to line for onward process(drying).

Inspection Station　　receives printed panel to-be-inspected, after inspection, the operator switches to send it back to line.(reject to be taken out manually or by conveyor)

Conveyor　　receives panel from Transfer Conveyor, then sends it to Dryer behind.

Above modular may be freely combined in line to demand, the drawing shows a regular plan, which often connects to an IR Hot-air Conveyor Dryer(for washed glass) or an Stack Loader ahead, and to an UV or IR Conveyor Dryer behind. Specification follows which of Screen Printer in 3 standard sizes (print area):
710 (750x1050mm), 1216 (1210x1610mm),   1225 (1210x2510mm)
Custom demand subject to special scheming, welcome inquiry.

ATMA

For screen-printing on flat glass panel, such as Vehicle Wind Shields, Home Appliance Doors/ Windows/ Panels, Architecture Partitions/Doors. Rigid board made of other materials also apply.

- Consists of Correction Conveyor + 4-post type Screen Printer, auto input → correcting → feed-in → registering → printing → output.
- Auto or 3/4 Auto operated, receives work from loader or hand-loading & outputs to dryer behind.
- Both units synchronized in speed, with pneumatic up/down bridge to convenient setup & cleaning.
- Unique pressure-equalized Pin-registering System, freely locatable to meet size of work w/o injury.
- With Screen Frame/Frame Holder Arm/Screen Registration air-locks for fast setup.
- Printing/Flood-coating pressure equalized for instant quality printing w/o repeat run-test & tuning.
- Free-standing Electric Control Box integrates all controls & links to section ahead/behind, fully systemized with various functions for easy operation.
- With full safety protections: Emergency-stop buttons, Safety Shields, Program Interlinks & Error-diagnose.

ATMATIC	GS710		GS1216		GS1225		GS1530	
Max. print area(mm in.)	750x1050	$29_{1/2}$ x $41_{1/4}$	1210x1610	$47_{5/8}$ x $63_{3/8}$	1210x2510	$47_{5/8}$ x $98_{3/4}$	1510x3010	$59_{3/8}$ x $118_{1/2}$
Min. print area(mm in.)	300x400	12x16	400x500	16x20	700x1000	28x40	1000x1500	40x60
Substrate thickness(mm in.)	2.5-16	1/8 -5/8	3-19	1/8 -3/4	3-25	1/8 -1	5-25	1/8 -1
Max. Frame size(mm in.)	1150x1350	$45_{1/4}$ x $53_{1/8}$	1700x2000	$66_{7/8}$ x $78_{3/4}$	1750x3200	$68_{7/8}$ x $125_{3/4}$	2100x3800	$82_{5/8}$ x $149_{1/2}$

For medium and large size flat glass panel screen printing

- Large size, manual edge alignment, suitable for various small volume production.
- Divided into three vacuum zones adjustable volume to concentrate suction power.
- Special design of roller device, remove panel without scratching.
- Attached with peel-off device without stick on screen while printing.

ATMA	GS1225		GS1530		GS2040	
Max. Print Area (mm in.)	1200x2500	47x98	1500x3000	59x118	2000x4000	79x157
Max. Frame Size(mm in.)	1750x3150	69x124	2100x3800	83x149	2500x4600	98x181

ATMA

Fully Automatic ITO Glass Panel Screen Printer
ATMATIC IG Series

Suitable for ITO glass panel high precision screen printing

- Automatic inlet with centering→edge alignment→printing→take-off
- Printing stroke driven by servomotor, high torque and digital control stable movement.
- Automatic equalizing system to control constant air pressure for printing even ink thickness.
- Adopts PEEK material combined with ball bearing for registration pin to achieve smooth alignment without scratching.
- Printing table with vacuum suction to hold panel while printing and air cushion for easy alignment.
- Safety protective loop + Error diagnose + safety light barrier at front and rear section + emergency stop button + three color warning light.

ATMATIC	IG45		IG68	
Max. Print Area (mm in.)	400x500	16x20	600x800	24x31
Max. Frame Size(mm in.)	900x900	35x35	1300x1300	51x51

Automatic Small Size Glass Panel Screen Printer
ATMATIC PD Series

Suitable for small size glass panel screen printing

- In-line feeding + edge alignment + printing + take-off
- Equipped two adjustable automatic retractile registration pins on table.
- Equipped two units of adjustable nesting bar for edge alignment and printing full size edge-to-edge, convenience to change various different panel sizes.
- Digital setting thru touch screen, complex function.
- Optional uninterrupted automatic loader
- Able to add optional in-line UV dryer at rear section

ATMATIC	45PA		60PD		70PD	
Max. Print Area (mm in.)	300x450	12x18	400x600	16x24	600x700	24x27
Max. Frame Size(mm in.)	500x720	20x28	700x880	27x35	900x980	35x38

High Precision Glass Panel Screen Printer with Belt Take-off
ATMA GS710/B

Top-class model for high precision printing on glass panel

- 4-post sliding table + unique belt take-off design, convenient for loading/unloading and upgrades output.
- Servo drives + linear rails, performs fast & stable run and accurate positioning.
- Digital touch panel control for all functions & pressure management, for easy operation & perfect print quality.
- Full safety protection by error-diagnose + safe restoration systems.

ATMA	G710/B	
Max. Print Area (mm in.)	750x1050	30x41
Max. Frame Size(mm in.)	1200x1420	47x56

ATMA

Digital Automatic Coating Machine

For precision coating photo-sensitive emulsion onto screen

- Motor driven stable coating for even deposit.
- Motor driven frame holder for various frame sizes.
- Handy foot-switched frame holding.
- Fully digital control + memory for fast setup.
- Single/double-sided coating in various modes.
- Coating times & pressure individually settable for each side.
- Full safety protection by error-diagnose + safe restoration systems.

	AT-C1012D	AT-C1216D	AT-C1620D
Max. Frame Size (cm)	1050x1250	1250x1650	1650x2050
(in.)	41x49	49x65	65x81

Auto Squeegee Sharpener

For grinding screen-printing squeegee for straight & sharp edges

- Auto operation, manual setting.
- Linear rail guiding.
- Fast holding, outcrop adjustable.
- Diamond wheel for best effect, auto reverse.
- Resolution, depth, stroke, angle adjustable.
- With vacuum cleaning.
- Available high end model with automatic digital control.

	AT-S70	AT-S100	AT-S150	AT-S200
Grinding Stroke(cm)	70	100	150	200
(in.)	28	40	60	80

UV Conveyor Dryer

For curing UV-curable ink

- 2 lamps in 80w/cm efficiency.
- Each lamp individually 2-step efficiency controlled & air-cooled.
- Conveyor speed digitally settable.
- 2 specs matching screen printers: working width a bit wider than output width of screen printer, conveyor length = inlet 1or 2m + lamp section 1m + outlet 1m.

	*D241	(1002C)	(1302C)
Working width (mm in.)	121 48	165 65	
Conveyor length(mm in.)	300 118	400 157	
Match printer spec.	710	1216,1225,1530	

IR Conveyor Dryer

For curing heat-durable ink

- Hot section adopts IR tubes, with turbulence fan, fan-cooling section added behind.
- Auto temperature control: ambient temp. ~ 200 ℃
- Conveyor speed digitally settable.
- 3 specs matching screen printers: working width a bit wider than output width of screen printer, working length matches printer capacity & drying speed of ink, 0.5m each added for inlet/outlet, custom spec acceptable.

	*D221	(1112/120)	(1213/170)	(1516/130)
Working width (cm in.)	120 47	170 67	130 51	
H+C sec. length(m)	9+2	11+1	14+1	
(ft)	29 1/2+6 1/2	36+3 1/4	46+3 1/4	
Match printer spec.	120	1216,1530	1225	

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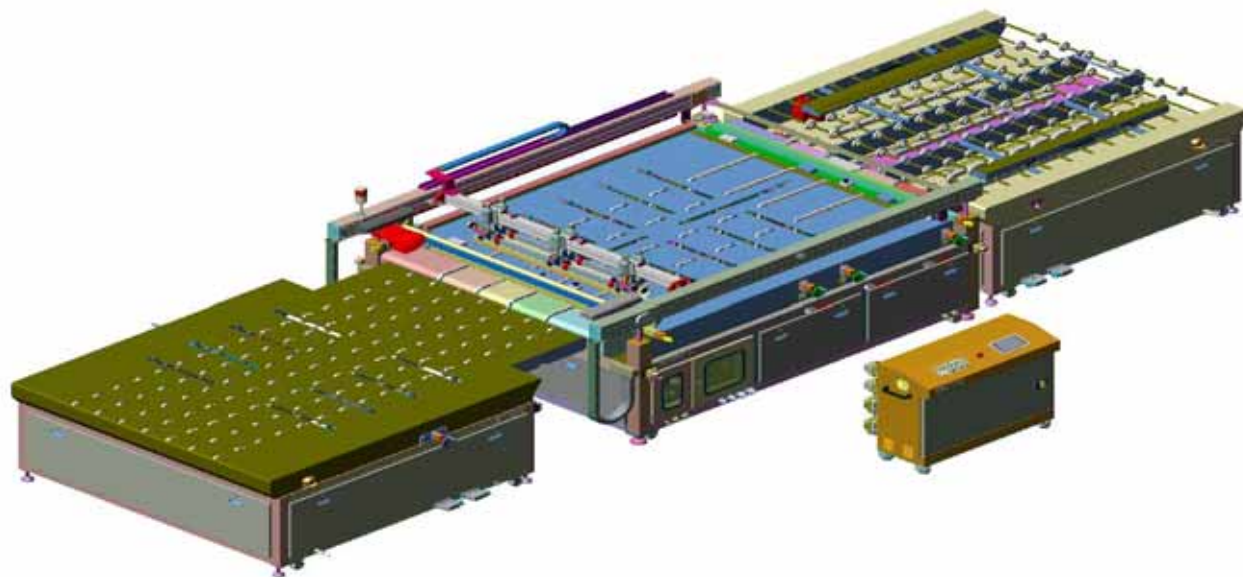
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ATMA
COMMIT TO TOP QUALITY

FULLY AUTOMATIC GLASS PANEL PRINTING LINE

ATMATIC GS2646

PRECENTERING CONVEYOR + FULLY AUTOMATIC SCREEN PRINTER + FOLDABLE TAKE-OFF CONVEYOR

| Silver National Award | National Innovation | Symbol of Excellence | National Award of SME | CE Certificate | ISO 9001, 14001 Certificate |
| of Excellence Winner | Research Award | Winner | (Small & Medium Enterprise) | | |

APPLICATIONS

Special for screen printing on Flat Glass Boards, such as those for Vehicle Wind Shields, Home Appliance, Architecture, other rigid board substrates also apply

www.ATMA.com.tw

SPECIFICATIONS

DESCRIPTIONS	ATMATIC GS2646
Max. Size of Glass	(2,600mm x 4,600mm) ± 0.5mm.
Min. Size of Glass	(1000mm X 1500mm) ± 0.5mm.
Thickness and weight of Glass	3mm to 20mm but the weight of glass should be under 400kgs.
Max. printing area:	2600mm X 4600mm.
Weight of glass	Max. weight of glass is 400kgs, Min. weight of glass is 1.8kgs.
Line Flow	Pre-centering conveyor — Printer with edge registering Foldable take-off conveyor.
Capacity on Max. size glass	20 Pcs/hour if dryer conveyor runs the speed in 18meter / min..
Max. and Min. O/D frame size	Max. O/D size: 3400mm X 5400mm, Min. O/D size: 1600mm X 2000mm.

Frame Height	30mm to 60mm,
Printing speed	From 100mm/sec to 735mm/sec.
Frame Micro-adjustment	X-Axis ±10mm, Y-Axis ±10mm, Z-Axis ±2mm,
Screen clean up height	400mm up From table top.
Standby Position	100mm from table top.
Off-contact height setting	0-50 mm.
Off-contact gap between table top and bottom of frame holder	9 mm.
Direction of line	From right to left,
ATMA Conveyor speed	From 2 meter/min. to 18 meter/min.
Swivel angle	No adjustment allowed.
Power source	3 phase, 400V, 50 Hz.
Height of Conveyor belt	1000mm + 30mm.
Controller	Color screen Touch panel with manual setting push button,
Type of squeegee holder	M type of Squeegee Holder
Type of Flood Coater	M type of Flood Coater
Glass position registering tolerance	± 0.5mm
Pusher driver	Pneumatic cylinder pushers for edge registering,
OPTION Pusher position adjustment	Digital glass size setting through touch screen to adjust the positions of pusher.

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