



# ATMALINE GS710

## Digital Fully Automatic Glass Panel Screen Printing Line



ISO 9001 & ISO 14001  
認證通過



1993-2004 年榮獲  
台灣精品獎



2000 年榮獲  
小巨人獎



1997 年榮獲  
創新研究獎



歐洲安全規格認證



國家磐石獎



1996 年榮獲  
台灣產品形象銀質獎



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## APPLICATION :

Dedicated to screen printing on flat glass, such as ceramic glass for cook-top, oven and so on for home appliance as well as other rigid plate.

## CHARACTERISTIC :

- ❖ Special conveyor belts are adopted for whole printing line to prevent scratching and pollution, obtaining glass plate precise positioning and long lifetime usage.
- ❖ Driven by German SEW gear motor, achieves max printing speed 1000 mm / second, world class top quality motor nearly zero fault.
- ❖ Use Laser Sensor against erroneous judgment, performs precise action.
- ❖ Comprehensive protection personal safety, brilliant outlook appearance and outstanding upscale level .
- ❖ Dynamical section adopts STAR High Precision oil free Linear Guide Rail, and is covered by rigid Aluminum alloyed extrusion profile, not only dust-proof and safety, but high precision and long lifetime.
- ❖ LED three color warning lamp, comprehensive indication.
- ❖ CE conformity Connector fast connecting, convenient installation and comprehensive protection.
- ❖ Use Mitsubishi PLC, motor and color touch-screen with low faulty rate and optimum integration.
- ❖ Each unit of the printing line gets mounted casters and leveling foot stands for quick installation to save time and labor.

## ELECTRICAL CONTROL :

- ❖ Enables to save the preset 0~99 totally 100 groups of parameters, fine setting each various printing parameters, convenient setting various working conditions and standardized processing.
- ❖ Registration section is equipped with photo sensor to detect glass positioning to get start next step, prevents erroneous printing without glass.
- ❖ Analog precise equalizing system is used for the pressure of squeegee / flood coater, enables to obtain efficiently stable pressure for squeegee / flood coater, possible to do digital adjusting thru touch-screen and raise efficiently stable printing quality. Besides, higher stable printing pressure can be obtained by setting the squeegee / flood coater delay 0 ~ 9.9 seconds downward to start either printing or flood coating.
- ❖ Attached with unique function of delay print, arbitrary digitized setting slight pressure of squeegee to scratch ink at beginning stroke, until reaches printing point, pressure is changed to the preset constant pressure for printing. Such may avoid squeegee to touch substrate's corner or edge to tear off screen mesh and convenient gathering ink.
- ❖ Prevents substrate to get stuck with screen mesh after printing. Able to set delay time 0~9.9 seconds for screen off contact 2 mm above table top after printing, until the setting time is over screen uplift to stand-by level.



- ❖ Possessed three printing cycle modes, pre-flood coating mode, instant flood coating mode, double squeegee mode, all printing cycle modes are coordination with [setting 1~5 times printing] and follows actual need to choose [peel-off], [vacuum suction], [delay print], [non flood coating], [flood coating at printing level] and so on, various groups of cycle mode to fulfill various printing requirement.
- ❖ Equipped with emergency stop button switch to stop machine in case of emergency and chain locking controlled by program, when setting or operating error or malfunction, stop machine immediately and error message with safety restoration icon is displayed on touch-screen.

### **AT-GP710 Correcting Conveyor x 2 sets**

- (1) Centering registration device is equipped above conveyors to fit various size of glass within range.
- (2) Centering can be done when Pusher (made of PEEK material) uplift, it doesn't push hard and without scratching trace, custom-made request for irregular shape is acceptable.

### **AT-GA710 Accumulating Station ( 30 pcs)**

- (1) Design to use STAR Linear Guide Rail to work coordination with Laser sensor to process precise positioning.
- (2) Various size of glass within range can be accepted by stacker, associated activation on line processing to receive and to release safety without malfunction.

### **AT-GS710 Automatic Glass Printer (including Electrical Control Cabinet)**

- (1) Use rigid Aluminum alloyed extrusion bar, sliding structure is machined to achieve precise leveling after calibration.
- (2) Precise registration, use linkage type, constant pressure is used for three-point registering, adjustable 3-point pre-pressure.
- (3) Long stroke cylinder, leverage pushing peel-off, adjustable fast and slow to meet requirement for extreme stability and slow speed.
- (4) Adopts SEW gear motor to drive directly, fast speed without malfunction.
- (5) Aluminum alloyed table top laminate is processed by hardness treatment, scratching proof in favor of adjusting guide rail for print head carriage to achieve extreme leveling for printing uniform ink deposit.
- (6) Use air locking screen frame, fine adjustment locking button to fit small and big frame, attached with check-valve without displacement to secure safety.
- (7) Conveyor belts up down is driven by four transmission rods, fast and stable.
- (8) Equipped with the imported displacement indicator, precise way.
- (9) Equipped human machine interface control cabinet, enables to preset production condition and total digitized for printing requirement management.



## AT-GT710 Transfer Conveyor

Enables to distribute into two ways or inspection when production, precise control delivery order of the glass from printing section and inspection section.

## AT-GI710 Inspection Station

Enable to preset number of inspection thru touch-screen for purpose of control quality, light source transmits table top for inspection.

## AT-GC710 Outlet Conveyor

Enable to control the quantity thru touch-screen and safely deliver onto conveyor for drying

### SPECIFICATION :

ITEMS	SPECIFICATION
Table size	1000x1516mm
Max printing area	700x1000mm
Min printing area	200x200mm
Screen frame O/D size	950x950 、 1000x1200 、 1100x1300mm
Frame height	25-40mm
Screen micro-adjustment	X/Y $\pm 10$ mm ; Z $\pm 2$ mm
Vacuum hole size	Null
Glass thickness	3-6mm
Glass weight	7.5kg
Screen cleaning level	400 mm
Printing head speed	1000mm/s
Print head swivel angle	$\pm 4^\circ$
Peel-off height	0-30mm
Conveyor belt height (from floor)	1000 $\pm$ 10mm
Productivity	500 P/H
Power source	3-phase , 220/380V , 50/60Hz
Power consumption	
Air source	5-7kg/cm <sup>2</sup>
Machine dimension (whole line)	329x850x219cm
Machine weight	4300kg

