



RH SOLUTIONS LLC

Bringing Print to Life



***Smooth, accurate, fast,
and press operator friendly.***

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AT-25PA/AT-45PA **Digital Electric** **Flat Screen Printer**

Suitable for high accuracy screen printing on flat sheet or board substrates made of non-deforming material.

For Stickers, Decals, Posters, Nameplates, Sign Boards, Flexible Printed Circuits, IMD, Membrane Switches and much more.

Customized jigs and fixtures made to order.



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FEATURES and BENEFITS

- *Semi-automatic*, hand load / hand off-load with controlled automatic printing.
- HMI digital touch screen panel provides user-friendly control with multiple printing functions and operating parameters, includes presetting throughput of current yield along with built-in error diagnostics.
- Horizontal head lift; screen is parallel with printing table for even ink flow. Optimum ease of use with open access for accurate substrate registration, off-load, screen cleaning and all setup controls within close reach.
- Greater control over the screen printing process with an unobstructed view of important printing parameters such as off-contact, peel-off, squeegee / flood settings, ink well area and view of substrate.
- Front frame loading / unloading for fast setup.

A) German S.E.W. Motor powers screw rod driven screen up/down position and drive motor for squeegee / flood travel. Provides high cycle speed with smooth mechanical movements, low noise and accuracy.

B) Printing table surface is CNC precision milled and manufactured from high quality anodized aluminum to achieve close tolerance planarity. Honeycomb construction for rigidity, while offering powerful, heat-dissipating turbine vacuum to prevent movement of substrate. Suction force is adjustable for optimum substrate control and printing requirements.

C) Travel of squeegee / flood on guided precision sealed linear motion bearings, reinforced tooth belt, timing belt wheel for high rigidity and ultra-smooth high print speed transport cycles without backlash. This ultra-smooth gliding of the squeegee / flood assembly enables step-less speed change for higher production speed, smooth operation, consistent / uniform printing deposit control, less maintenance and fast operation.

FEATURES and BENEFITS continued...

D) Patented mechanical print head lift guided on precision sealed linear motion bearings allows stable, vibration-free movement in up / down positions.

E) Squeegee and flood printing parameter settings for speed, pressure, and stroke travel distance is independently controlled by single action from the touch screen.

F) Includes pneumatic squeegee / flood pressure equalizer control system. Fully automatic and regulated by a constant pressure control system equalized with pivot point balance for angled substrate along with snowplow skew feature for irregular print surfaces.

G) Print table X / Y movements via precision scaled micrometer control(s) for fine registration. Play-free registration without backlash.

H) Touch screen control of off-contact height between substrate and screen. Numerical value can be set up to accommodate substrate thickness 0 – 50 mm (0 – 2”).

I) Choice of six print functions from touch screen: flooding before the print stroke, flooding after the print stroke, higher cycle speed-flood while screen lifts to full up position, double squeegee printing mode with use of two squeegees mounted allowing printing in both directions and screen lift up to print position, twice printing mode (flood while screen lowers and the last flood when screen is in up position) and double squeegee mode with use of two squeegees to perform left print direction while right squeegee is idle and right print direction while left squeegee is idle. Includes no flood setting and print head lift for ease of sq / fl load and unload without removing for fast setup.

FEATURES and BENEFITS continued...

- J) Touch screen input of printing standby height 100-300mm. This is the distance that the screen lifts up after the squeegee and flood sequence. Numeric value can be preset to stop the screen in a lower position for increase cycle speed.
- K) Squeegee / flood assembly is synchronized and changeover is pneumatically operated for smoother transition. Adjustable height controls, angle settings 0-30°, leveling and skew feature. Provides uniform ink deposits across the entire print area.
- L) Touch screen input variable and independent for print and flood stroke speed and length setting to image size. Numerical input of right print stroke start point 0-240mm and left stop point 180-330mm – AT-25PA and 280-530mm – AT-45PA 0-240mm and 280-530mm.
- M) Print operating cycles: Manual setting for set up procedure, setting for foot pedal control in single cycle and automatic control with dwell timer range of time selectable from 0.2-60 seconds for substrate loading, auto-print and off-loading.
- N) Productivity preset in numerical values for throughput can be changed anytime. Enter production quantity according to run length and during the run screen will indicate current yield until preset number of prints are achieved.
- O) Frame loading and unloading from the front of the machine to facilitate fast setup and changeovers.
- P) Control system for compressed air supply is an oil free FRL unit to prevent oil mist pollution, applicable in clean room environment. Less air consumption, ½ HP air compressor is enough.
- Q) Emergency press plate positioned in front of print table in case substrate alignment is not in the correct position. Operator can press the plate and printing head slowly lifts up to the full upright home position allowing operator the chance to register correctly final substrate alignment. Reduces spoilage and yields more printed product.

FEATURES and BENEFITS continued...

R) Front safety bar location on the print head, compliant with OSHA safety regulations.

S) Includes 4 squeegee holders and 4 flood coaters, sq. / fl clamps, pedal switch control, toolbox, tools and door key.

Options:

Additional registration pins, anti-static equipment, and dripless squeegee. Others available upon request.

	AT-25PA		AT-45PA	
	Metric	US Std Units	Metric	US Std Units
Table Size	250mm x 400mm	9¾" x 15¾"	400mm x 600mm	15¾" x 23½"
Vacuum Area	210mm x 300mm	8¼" x 11¾"	345mm x 495mm	13½" x 19½"
Max. Print Area	200mm x 250mm	7⅞" x 9¾"	300mm x 450mm	11¾" x 17⅝"
Max. O/D Frame Size	380mm x 520mm	14⅞" x 20½"	500mm x 720mm	19⅝" x 28⅜"
Frame Height	20mm - 30mm	¾" - 1⅛"	20mm - 30mm	¾" - 1⅛"
Substrate Thickness	0 - 50mm	0 - 2"	0 - 50mm	0 - 2"
Table Height	945mm + 30mm	37⅞" + 1⅛"	945mm + 30mm	37⅞" + 1⅛"
Screen-lift Height	300mm	11¾"	300mm	11¾"
Print Head Speed	220mm - 1100mm /sec	8" - 43"/sec	220mm - 1100mm /sec	8" - 43"/sec
Max. mechanical cycle (per hour, full stroke)	780		720	
Electric Power	1 , 220V, 50/60Hz		1 , 220V, 50/60Hz	
Power Consumption	0.83 kW		0.83 kW	
Input Air Pressure	5-7 kg/cm ²	90-110psi	5-7 kg/cm ²	90-110psi
Air Consumption	0.54 liter/cycle	0.14 gal/cycle	0.54 liter/cycle	0.14 gal/cycle
Machine Dimensions	72cm x 68cm x 171cm	28" x 27" x 67"	92cm x 75cm x 171cm	36" x 30" x 67"
Weight	190 kg	418 lbs	245 kg	539 lbs

(changes may be made without prior notice)

RH SOLUTIONS specializes in ATMA / SPS screenprinting machinery covering seven industry sectors classified as: Industrial, graphic, glass, printed circuits, opto-electronic, bio-medical, green energy and auxiliary. ATMA produces the finest machinery specifically for close-tolerance and high precision requirements using only the highest quality components and materials available.

ATMA is a world leader for high-end screen printers, winner of Taiwan's prestigious SYMBOL OF EXCELLENCE honor for more than ten consecutive years, and the only screenprinting machine manufacturer to be ISO 9001/14001 CERTIFIED. This international certification assures the highest quality design and manufacturing.

ATMA's 35 years of experience with more than 200,000 screen printers installed worldwide makes them top choice for the highest quality machines with low maintenance cost, steadfast reliability, and long production life.

Please see ATMA brochure for more information. ATMA's policy is one of continuous improvement and accordingly, the manufacturer reserves the right to change specifications without prior notice.

