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# AT-P Series Electric Flat Screen Printer

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# ATMA AT-P Series Electric Flat Screen Printer



## Specifications:

	AT- 80P		AT- 120P		AT- 160P	
	Metric	US Customary Units	Metric	US Customary Units	Metric	US Customary Units
Table Size (D x W / mm)	700mm x 900mm	27½"x35¾"	800mm x 1400mm	31½"x55½"	800mm x 1700mm	31½"x66¾"
Vacuum Area (D x W / mm)	600mm x 800mm	23¾"x31½"	700mm x 1300mm	27½"x51½"	700mm x 1580mm	27½"x62"
Max. Print Area (D x W / mm)	600mm x 800mm	23¾"x31½"	700mm x 1200mm	27½"x47¼"	700mm x 1600mm	27½"x63"
Max. Frame Size (O/D, D x W / mm)	900mm x 1100mm	35¾"x43¼"	1000mm x 1500mm	39¾"x59"	1000mm x 1900mm	39¾"x74¼"
Max. Frame Height (mm)	26mm - 52mm	1.02" to 2"	26mm - 52mm	1.02" to 2"	26mm - 52mm	1.02" to 2"
Substrate Thickness (mm)	0 - 25mm	0 to 1"	0 - 25mm	0 to 1"	0 - 25mm	0 to 1"
Table Height (mm)	960mm+20mm	37¾"+¾"	960mm+20mm	37¾"+¾"	960mm+20mm	37¾"+¾"
Screen-up Clearance From Table (mm)	300mm+25mm	11¾"+1"	300mm+25mm	11¾"+1"	300mm+25mm	11¾"+1"
Print Head Speed (mm/sec)	0 - 835mm/sec	0 - 33"/sec	0 - 835mm/sec	0 - 33"/sec	0 - 835mm/sec	0 - 33"/sec
Max. Capacity (P/H, full stroke)	800		650		480	
Screen X / Y Adjustment (mm)	±10 / ±10	±¾" / ±¾"	±10 / ±10	±¾" / ±¾"	±10 / ±10	±¾" / ±¾"
Squeegee Skew-angle	±9°					
Power Source	3 PHASE, 220V/380V, 50/60Hz					
Power Consumption	2.6 kw		3.3 kw		4.1 kw	
Compressed Air Source	5-6 kg/cm <sup>2</sup>	90 - 110 PSI	5-6 kg/cm <sup>2</sup>	90 - 110 PSI	5-6 kg/cm <sup>2</sup>	90 - 110 PSI
Air Consumption (L/cycle)	3 L/cycle	0.8 gal/cycle	3 L/cycle	0.8 gal/cycle	3 L/cycle	0.8 gal/cycle
Machine Dimension (W x D x H)	150cm x 130cm x 170cm	59" x 51" x 67"	190x140x175cm	75"x55"x69"	230x140x175cm	91"x55"x69"
Machine Weight	805 kg	1771 lb	980 kg	2156 lb	1150 kg	2530 lb

## FEATURES AND BENEFITS

### AT-80P / AT-120P / AT-160P Electric Flat Screen Printer

(NEW – Includes HMI digital touch screen panel as standard. Replaces analog switch control.)

- Semi-automatic, hand load / hand off-load with controlled automatic printing functions.
  - HMI digital touch screen panel provides user-friendly control with multiple printing functions and operating parameters including 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.
- A. German S.E.W. Motor powers 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. 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. Servo motor driven, 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.**
- D. Squeegee / flood high-park capability facilitates faster setup and changeover.**
- E. Pneumatic frame locking with check valves / airlock and four-sided frame holding assembly ensures rigidity and high stability.**
- F. Patented mechanical print head lift guided on precision sealed linear motion bearings allows stable, vibration-free movement in up/down positions.**
- G. Squeegee and flood printing parameter settings for speed, height up/down position and manual travel for set up independently controlled by single action from the touch screen.**

### FEATURES AND BENEFITS

(continued)

**H. 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.**

**I. Stable pneumatic cylinders are encased around solid cast to allow consistent pressurization of squeegee and flood. After initial setup pressure regulator can be increased and decreased on the fly. For most applications suitable pressure range is 3-4 bars and the squeegee and flood both have pressure indicators to gauge incremental setting amount.**

**J. Touch screen control of peel-off action to assist release of ink and mesh from substrate synchronized with the print stroke in the auto-mode of operation. Flood coat sequence is carried out with the frame in the horizontal position allowing a no peel flood function. This benefit offers more uniform control and evenness of ink layer over length and width of image area.**

**K. Peel-off height lifting point adjustable by low speed cylinder depending on print stroke and mechanical adjustment to set peel-off height.**

**L. Mechanical adjustment of off-contact height settings to accommodate substrate thickness 0 - 25 mm (0 - 1").**

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

**N. Choice of three print functions from touch screen: flooding before the print stroke, flooding after the print stroke and for higher cycle speeds flood while screen lifts to full up position. Includes no flood setting and print head lift for ease of sq / fl load and unload without removing for fast setup.**

**O. 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.**

**P. Highly efficient delta servo motor powers squeegee and flood coater with greater accuracy of speed range (acceleration and deceleration) 100-1000 mm/second. Direct numeric input of digital settings for stroke position through touch screen control. Immediate upgrade for 120P, AT-80P and AT-160P will be upgraded after old versions are sold out.**

**Q. Variable and independent print and flood stroke speed and length setting to image size.**

**R. Productivity preset in numerical values for throughput can be changed anytime. Enter production quantity according to run length and during run the touch screen will indicate current yield until preset number of prints are achieved.**



### FEATURES AND BENEFITS

(continued)

**S. Frame loading and unloading from the front of the machine to facilitate fast setup and changeovers. Frame holding rails can be unlocked from touch screen and easily adjusted to the size of the frame.**

**T. Control system for compressed air supply is an oil free FRL unit to prevent oil mist pollution, applicable in clean room environment.**

**U. Equipped with powerful turbine vacuum control to prevent movement of the substrate.**

**V. 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.**

**W. Front safety bar location on the print head, compliant with OSHA safety regulations.**

**X. Includes 3 squeegee holders and 3 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.**

**To see RH SOLUTIONS extensive range of high quality screen printing machines and auxiliary equipment, be sure to check out our website: [www.rh-solutionsllc.com](http://www.rh-solutionsllc.com)**

**RH SOLUTIONS specializes in ATMA / SPS screen printing 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 screen printing 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.**