



RH SOLUTIONS LLC

Bringing Print to Life



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

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AT-80P/SV

Electric Flat Screen Printer with Vacuum Take-off

Suitable for flat screen printing on flexible / rigid materials such as Membrane Switch, Flexible PCB, Metal Nameplate, Acrylic, Glass, PCB, Industrial Products, Transfers, Signs, etc.

By adding the vacuum take-off option the standard AT-80P semi-automatic screen printer converts to a three-quarter automatic.



CALL US TODAY

513.407.5399

ATMA AT-80P/SV

Electric Flat Screen Printer with Vacuum Take-off

SPECIFICATIONS:

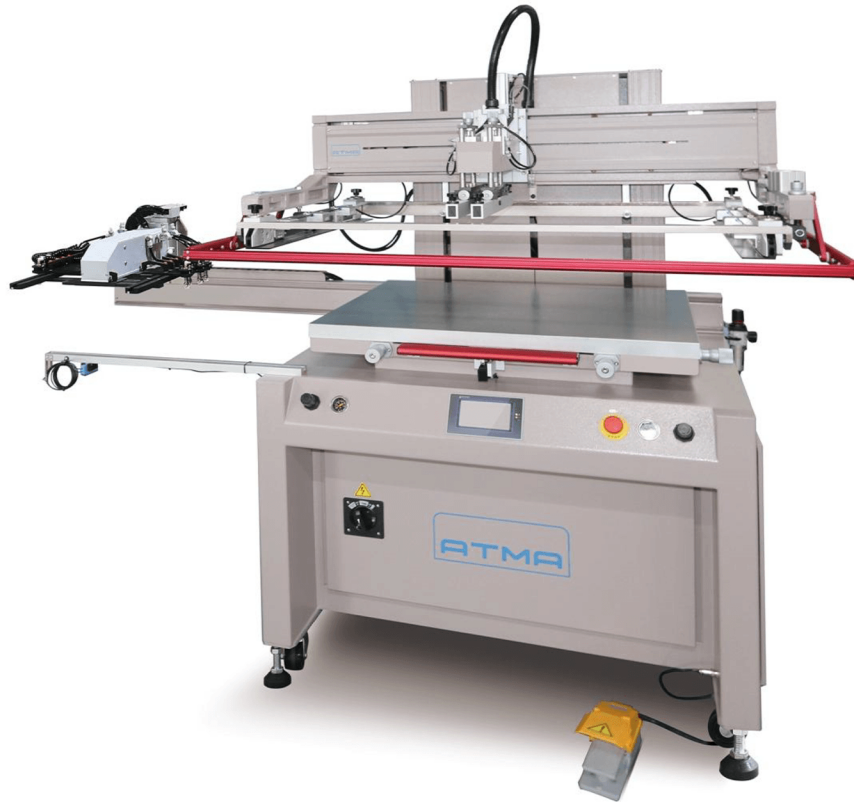
	AT- 80P/SV	
	Metric	US Customary Units
Table Size (D x W / mm)	700mm x 900mm	27½"x35¾"
Vacuum Area (D x W / mm)	600mm x 800mm	23⅝"x31½"
Max. Print Area (D x W / mm)	600mm x 800mm	23⅝"x31½"
Max. Frame Size (O/D, D x W / mm)	900mm x 1100mm	35⅝"x43¼"
Max. Frame Height (mm)	26mm - 52mm	1.02" to 2"
Substrate Thickness (mm)	0 - 25mm	0 to 1"
Table Height (mm)	960mm+20mm	37¾"+¾"
Screen-up Clearance From Table (mm)	300mm+25mm	11¾"+1"
Print Head Speed (mm/sec)	0 - 835mm/sec	0 - 33"/sec
Max. Capacity (P/H, full stroke)	720	
Screen X / Y Adjustment (mm)	±10 / ±10	±⅜" / ±⅜"
Squeegee Skew-angle	±9°	
Power Source	3 PHASE, 220V/380V, 50/60Hz	
Power Consumption	3.1 kw	
Compressed Air Source	5-6 kg/cm ²	90 - 110 PSI
Machine Dimension (W x D x H)	2250x1300x1700mm	89"x51"x67"
Machine Weight	757 kg	1669 lb

All specifications in this brochure are subject to possible alteration.

All substrates should be tested first before going into production,
as they may not be suitable for the Vacuum take-off.

Upgraded from AT-80P

AT-80P/SV



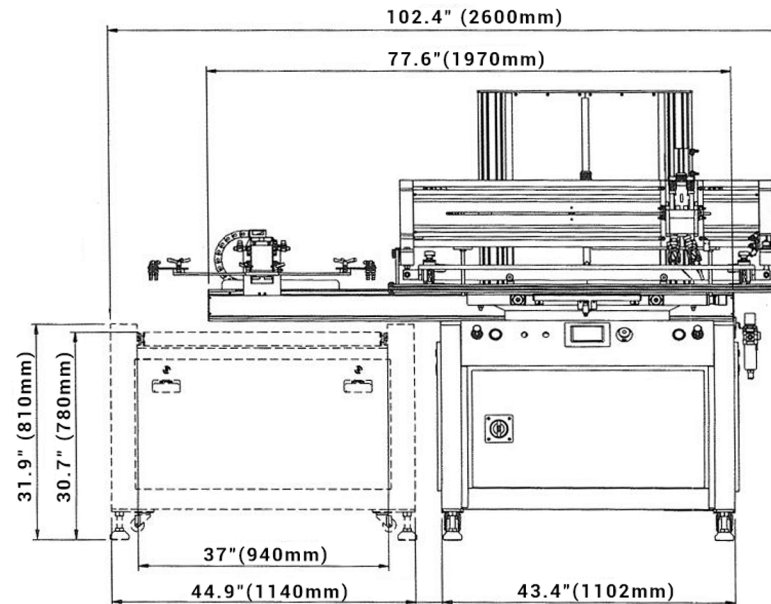
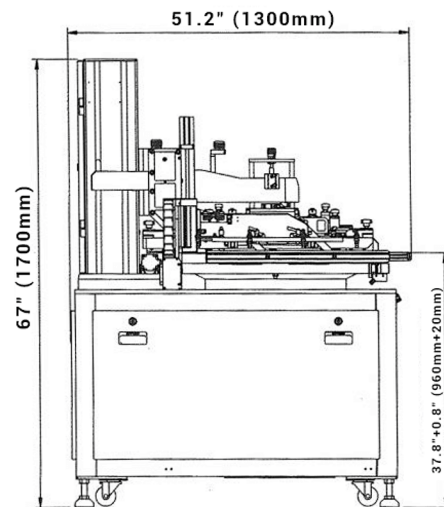
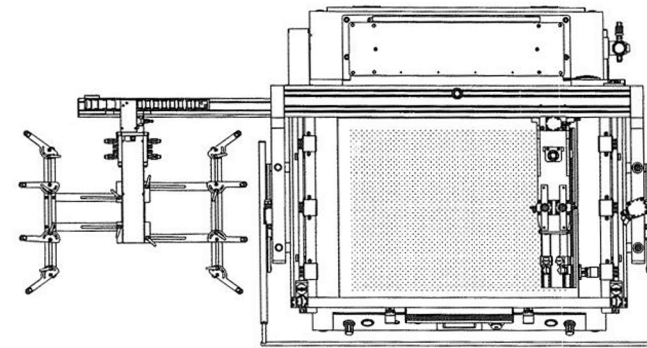
AT-80P



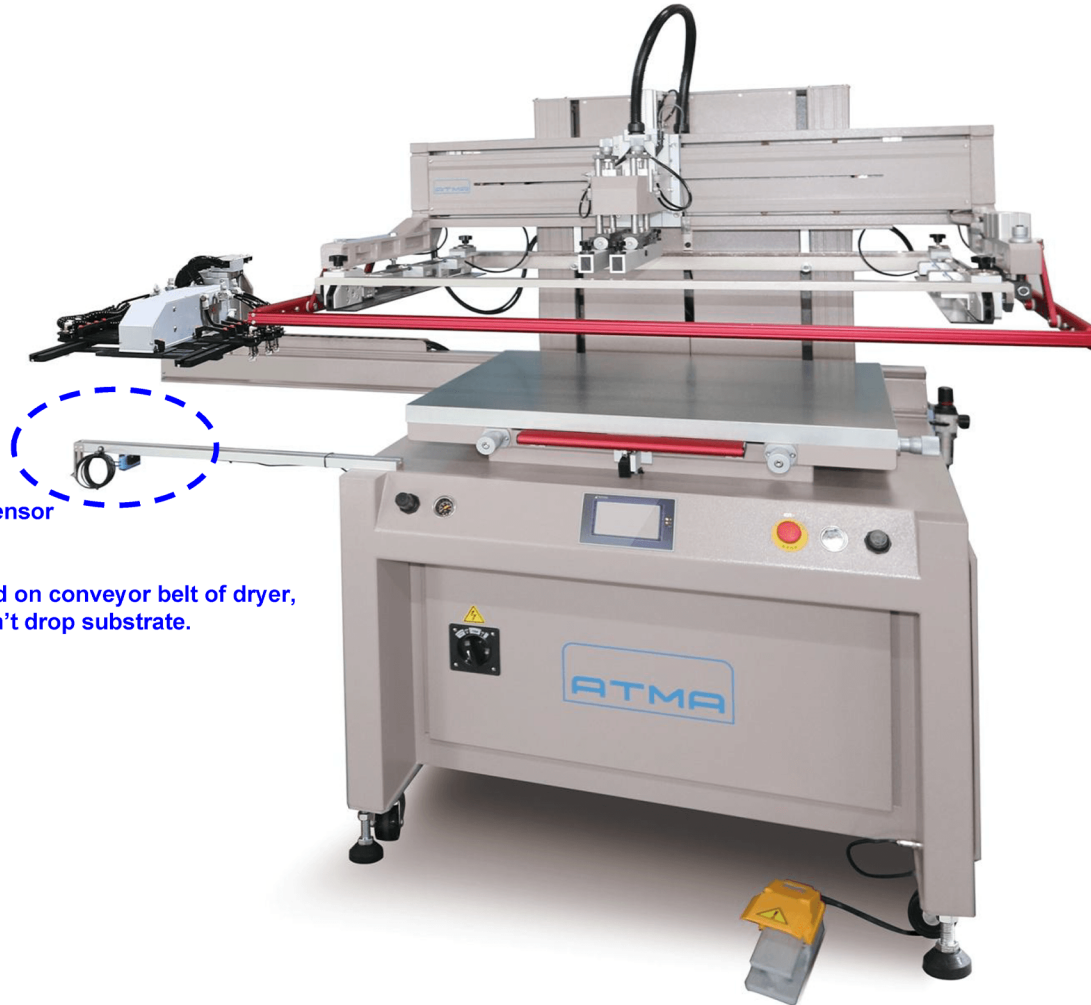
Machine Dimensions

IMPORTANT:

Suggested Conveyor Height = 780mm
Suggested Conveyor Width = 940mm
User's conveyor dimensions need to be provided to ATMA for study.



Substrate Detection

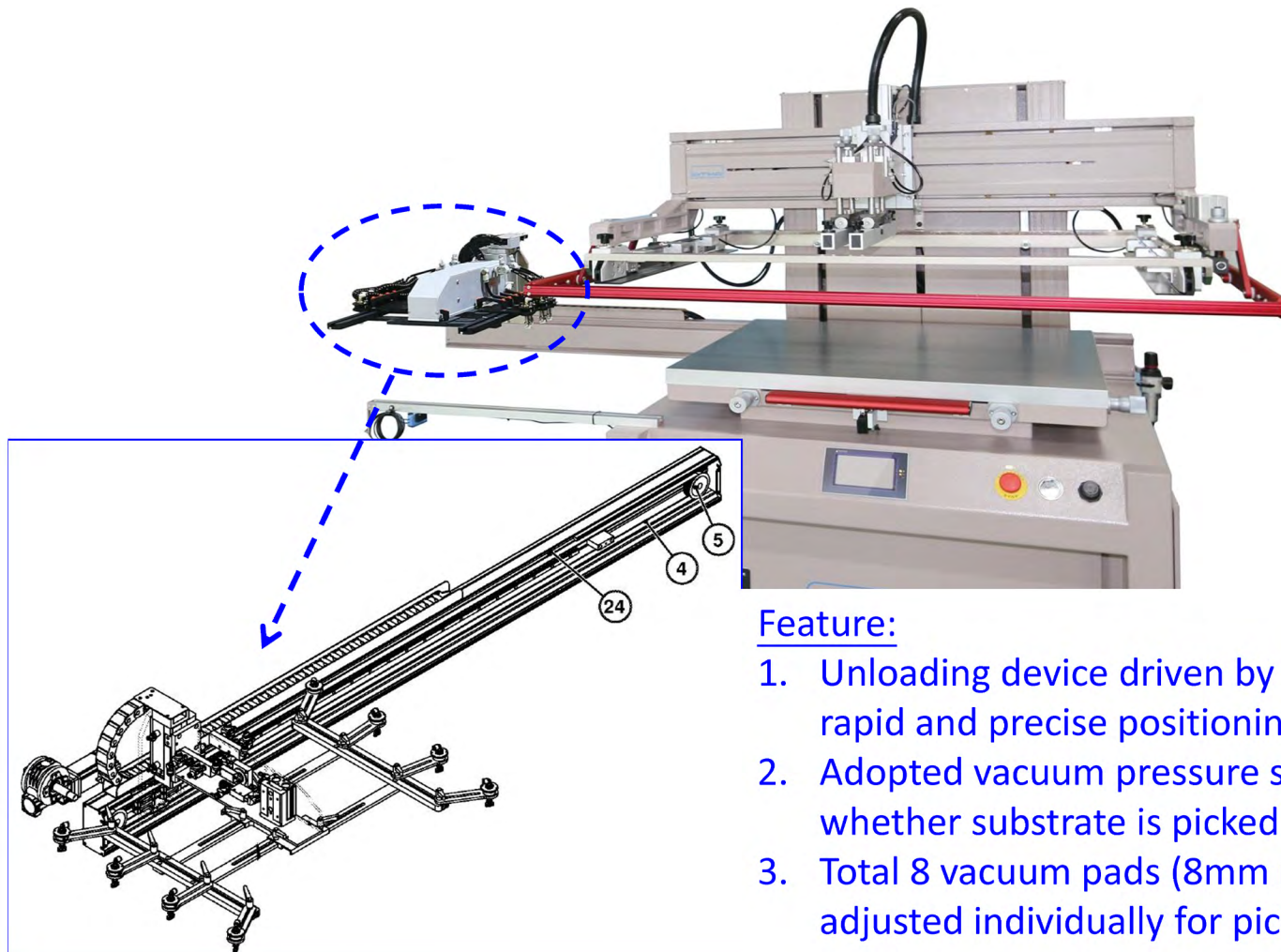


Substrate detection sensor

Function:

If substrate is detected on conveyor belt of dryer, unloading device won't drop substrate.

Unloading Device



Feature:

1. Unloading device driven by servo motor for rapid and precise positioning
2. Adopted vacuum pressure switch to detect whether substrate is picked up.
3. Total 8 vacuum pads (8mm nozzle) can be adjusted individually for picking substrate up.

Control Panel Interface

印刷功能

Unloading device can be disabled when not needed.

Position adjustment of unloading device

460-840 mm

0-380 mm

1300-1400 mm

參數設定

0-99 *0.1sec

100~1500 mm/sec

Traveling speed of unloading device is adjustable.

ATMA AT-80P/SV

Electric Flat Screen Printer with Vacuum Take-off

FEATURES AND BENEFITS

- Electric vertical up down design (patented), fast and stable movement.
- 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, easy screen cleaning, replacement of squeegee/flood-coater, and placement of all setup controls within close reach.
- Joined type of frame holder design with strong structure to support heavy pressure printing.
- Equipped with auto take-off device. Substrate is delivered directly to dryer to raise production capacity.
- The take-off device is a carrier with 8 vacuum pads suitable for thin and rigid substrate including industrial products.
- Moving stroke and speed of the vacuum pad carrier is adjustable through the machine touch screen (HMI).

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

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.