



**RH SOLUTIONS LLC**

Bringing Print to Life



**AT-68C**

High-Speed  
Clam Shell  
Screen Printer



Suitable for screen printing substrates in flat sheet or board form, made of non-deforming materials.

Examples include Stickers, Decals, Posters, Nameplates, Sign Boards, Printed Circuit Boards and much more.

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

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CALL US TODAY

**513.407.5399**

## Features and Benefits

- *Semi-automatic*, hand load / hand offload with controlled automatic printing functions.
- HMI digital touch screen provides user-friendly control with multiple functions and operating parameters, includes presetting throughput of current yield along with built-in error diagnostics.
- Printing front to back direction. Front frame load / unloading for fast setup.

### Technical Specifications:

| Descriptions                        | AT-68C                      |                   |
|-------------------------------------|-----------------------------|-------------------|
| TABLE SIZE (D x W / mm)             | 700 x 1000                  | (27.5" x 39.3")   |
| VACUUM AREA (D x W / mm)            | 600 x 800                   | (23.6" x 31.5")   |
| MAX. PRINT AREA (D x W / mm)        | 600 x 800                   | (23.6" x 31.5")   |
| MIN. PRINT AREA (D x W / mm)        | 400 X 400                   | (15.75" x 15.75") |
| MAX. FRAME SIZE (O/D, D x W / mm)   | 1000 x 1000                 | (39.3" x 39.3")   |
| MIN. FRAME SIZE (O/D, D x W / mm)   | 700 x 700                   | (27.56" x 27.56") |
| MAX. FRAME HEIGHT (mm)              | 25-40                       | (.98" - 1.57")    |
| SUBSTRATE THICKNESS (mm)            | 0-25                        | (0" - .98")       |
| SCREEN-UP CLEARNACE FROM TABLE (mm) | 395                         | (15.55")          |
| PRINT HEAD SPEED (mm/sec)           | 0-1000                      | (0" - 39.37")     |
| TABLE X / Y ADJUSTMENT (mm)         | ±10 / ±10                   | (+/- 0.39")       |
| POWER SOURCE                        | 3 PHASE, 220V/380V, 50/60Hz |                   |
| POWER CONSUMPTION (kW)              | 2.75                        |                   |
| COMPRESSED AIR SOURCE               | 5-6 kgs/cm <sup>2</sup>     |                   |
| AIR CONSUMPTION (L/cycle.)          | 1.41                        |                   |
| MACHINE DIMENSION (W x D x H / cm)  | 112x158x140                 | (44" x 62" x 55") |
| MACHINE WEIGHT (kg)                 | 660                         | (1499 lbs)        |

CHANGE MAY BE MADE WITHOUT PRIOR NOTICE

## Features and Benefits

- A) German S.E.W. Motor powers screen up/down position, DC drive squeegee / flood assembly and turbine vacuum table. Provides smooth mechanical movements, low noise and accuracy.
- B) Printing table surface is manufactured from high quality anodized aluminum to achieve close tolerance planarity. Honeycomb construction for rigidity, while offering powerful, heat-dissipating 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-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.
- D) Includes pneumatic squeegee / flood pressure equalizer control system. Fully automatic regulated by a constant pressure control system equalized with pivot point balance for angled substrate along with snowplow skew feature for irregular print surfaces. After initial setup small incremental increases and decreases of pressure can be made on the fly. For most applications suitable pressure is about 3-4 bars and the squeegee and flood both have pressure gauge to measure incremental setting amount.
- E) Squeegee and flood height / depth is independently controlled by single action control from the micrometers.

## Features and Benefits

F) Motorized and pneumatically driven transmission head lift action with electromagnetic suction at the lowest screen position designed to balance load and obtain accurate alignment. Further when screen is aligned and locked during printing against high printing pressure accurate registration can still be achieved, controlled and maintained. Includes row of photoelectric switches for up/down alignment once in designated position the motor brake will activate and position immediately once the switch is activated. Head lift has load bearing air cylinders along with up / down slowdown buffering to control cantilever holder in each final position.

G) Touch screen panel peel-off adjustable to start incrementally during print stroke in proportion to the image position along with settings for height and rate to assist release of mesh from substrate during print sequence. Flood coat sequence is carried out with screen level in a no peel flood function. This benefit offers more uniform control and evenness of ink layer over length and width of image area.

H) Hand wheel for adjustment height of vacuum table for various substrate thicknesses up to 25 mm (1").

I) Includes pneumatic squeegee / flood pressure equalizer / peel-off 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. 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 / flood / peel-off have pressure indicators to gauge incremental setting amount.

## Features and Benefits

J) Touch screen panel control of peel-off adjustable to start incrementally during print stroke in proportion to the image position along with settings for height and rate to assist release of mesh from substrate during print sequence. 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) Print table X, Y & theta movements via precision scaled micrometer control(s) for fine registration. Play-free registration control without backlash.

L) Choice of three print functions: flooding before the print stroke and flooding after the print stroke, printing twice (screen lowers, print-flood-print, screen lifts to up position and flood) and no flood setting. Includes no flood setting and print head lift for ease of sq / fl load and unload without removing for fast setup.

M) 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.

N) Manual locking/unlocking knobs to hold down the frame and frame holding rails.

O) Touch screen input variable and independent for print and flood stroke speed and length setting to image size. Numerical input of start point of squeegee blade 0-800mm and end point of squeegee blade 400-680mm.

P) Extended screen lift for ease of access underneath screen for inspection and cleaning.

## Features and Benefits

Q) Print operating cycles automatically controlled with dwell timer for single cycle loading and off-loading, independent foot pedal control cycling and manual setup mode.

R) 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.

S) Frame loading and unloading from the front of the machine to facilitate fast setup and changeovers. Frame holding rails can be unlocked manually from lock screw and easily adjusted to the size of the frame with scale to easily locate position.

T) Squeegee and flood proximity switch trigger to stop when printing stroke exceeds the set limit position.

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

V) Equipped with powerful turbine vacuum control to prevent movement of substrate.

W) 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.

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

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

Options: Available upon request.



# AT-68C High-Speed Clam Shell Screen Printer



To see RH SOLUTIONS extensive range of high quality screenprinting machines and auxiliary equipment, be sure to check out our website: [www.rhsolutionsllc.com](http://www.rhsolutionsllc.com)

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 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.

