

Digital Electric Index Table Screen Printers



AT-25PAD (4I)
4-Index tables



AT-45PAD (2I)
2-Index tables

Suitable for precision flat screenprinting on small molded substrates and/or components such as bio-chips, books, casings, panels and other formed materials with thicknesses 40 – 100 mm (1 ½” – 4 “).

AT-45PAD models can be fitted with optional vacuum index tables for flat lightweight substrates with thickness 0 – 50 mm (0 – 2”) or pallets for printing bags or tooling fixtures for can coolers, sunglasses, tape measures, frisbees, mugs, bottles and other specialty items.



SLIVER NATIONAL
AWARD OF EXCELLENCE
WINNER



NATIONAL
INNOVATION
RESEARCH AWARD



SYMBOL OF EXCELLENCE
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NATIONAL AWARD OF SME
(Small and Medium Enterprises)



CE CERTIFIED



ISO 9001 ISO14001
CERTIFIED



NATIONAL
LITTLE GIANT AWARD
WINNER

Features and Benefits

- Semi-automatic, hand load / hand off-load with controlled automatic printing with servo-driven index tables.
- HMI digital touch panel screen 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/chassis base 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) Rotating index tables are servo driven for fast and precise mechanical cycle. Standard tables include threaded insert holes to hold tooling / fixtures during printing. Custom-made tooling / fixtures are optional. Submit drawing to: sales@rh-solutionsllc.com

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) Squeegee / flood high-park capability facilitates faster setup and changeover.

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

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

H) Print table X / Y movements via precision scaled micrometer control(s) for fine registration. Play-free registration without backlash. On standard spec models.

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

J) Choice of three print functions from touch screen: flooding before the print stroke, flooding after the print stroke 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.

K) Touch screen input of printing standby height 50-300mm. 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.

Features and Benefits

(continued)

L) 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.

M) Touch screen input for variable and independent print and flood stroke speed and length setting to image size. Numerical input of right print stroke start point 0-140mm and left stop point 180-330mm.

N) 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 for substrate loading, auto-print and off-loading.

O) 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.

P) Index table speed setting range 3.5 – 20.93 RPM.

Q) Frame loading and unloading from the front of the machine to facilitate fast setup and changeovers.

R) 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.

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

T) AT-25PAD includes 3 squeegee holders and 3 flood coaters and AT-45PAD includes 4 squeegee holder and 3 flood coaters, sq. / fl clamps, squeegee rubber, pedal switch control, toolbox, tools and door key.

Features and Benefits

(continued)

Options:

- 1) Custom-made tooling / fixtures are optional. Submit drawing to: sales@rh-solutionsllc.com
- 2) AT-45PAD can be fitted with vacuum index tables for lightweight thin substrates.
- 3) Tooling table can be replaced with pallets mounted on crossbar, ideal for printing bags, can coolers and other specialty items.

Others available upon request.

Specification	AT-25PAD(4I) Metric	AT-25PAD(4I) US Standard Units	AT-45PAD(2I) Metric	AT-45PAD(2I) US Standard Units
Max.print area(DxW)	150mm x 250mm	5 $\frac{1}{2}$ " x 9 $\frac{3}{4}$ "	200mm x 400mm	7 $\frac{7}{8}$ " x 15 $\frac{3}{4}$ "
Working table size(DxW)	140mm x 250mm	5 $\frac{1}{2}$ " x 9 $\frac{3}{4}$ "	200mm x 400mm	7 $\frac{7}{8}$ " x 15 $\frac{3}{4}$ "
Max.O/D frame size(DxW)	380mm x 530mm	15" x 20 $\frac{1}{2}$ "	300mm x 730mm	11 13/16" x 28 47/64"
Screen frame height	26mm to 54mm	1.02" to 2.12"	26mm to 54mm	1.02" to 2.12"
Substrate thickness	40mm - 100mm	1 $\frac{1}{8}$ " - 4"	40mm - 100mm	1 $\frac{1}{8}$ " - 4"
Capacity(P/H,full speed full stroke)	1200/hr	1200/hr	1000/hr	1000/hr
Power source	1phase,220V,50/60Hz	1phase,220V,50/60Hz	1phase,220V,50/60Hz	1phase,220V,50/60Hz
Power consumption	0.78 kW	0.78 kW	0.78 kW	0.78 kW
Air source	5-7 kg/cm ²	71 - 100 psi	5-7 kg/cm ²	71 - 100 psi
Air consumption (per cycle)	0.45 L	0.12 gal	0.45 L	0.12 gal
Dimension(WxDxH)	72cm x 97cm x 171cm	28 $\frac{3}{8}$ " x 38 $\frac{1}{4}$ " x 67 $\frac{3}{8}$ "	92cm x 97cm x 171cm	36 $\frac{1}{4}$ " x 38 $\frac{1}{4}$ " x 67 $\frac{3}{8}$ "
Weight	270kg	596 lb	310kg	684 lb

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.



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