RH SOLUTIONS LLC

Bringing Print to Life

ATMA

# AT-60FX

## Stereo Casing Flat Screen Printer

The AT-60FX is suitable for screen printing on a wide range of materials such as: computer and stereo casings, coolers, appliances, scanners, faceplates, mounting plates, any solid-plastic parts or components, and more.

*Custom jigs and fixtures made to order.*

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

CALL US TODAY

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# CHARACTERISTICS

**Semi-automatic screen printer:** Hand load / hand unloading of substrate.

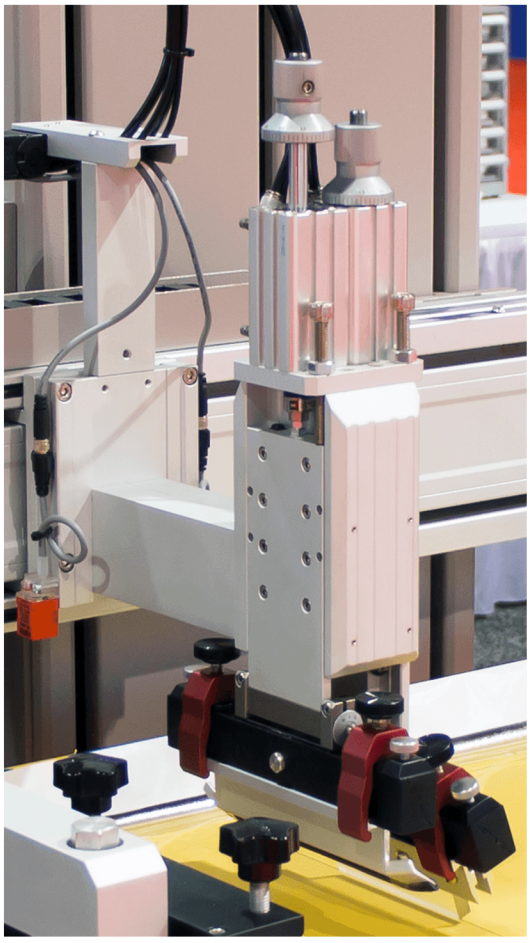
**HMI digital touch screen panel:** Provides user-friendly control with selectable printing parameters along with restore and error message display.

## HORIZONTAL HEAD LIFT

Parallel screen with print table offers open access and ease of substrate loading / off-loading. Registration, screen cleaning, print monitoring of ink well, peel-off, off-contact, mesh release from substrate in easy viewing range and all setup controls are within close reach. High-grade linear guide rails provide stable vibration free up/down movement.

**Screen Frame Holder:** Front loading of screen frame provides fast setup. Screen frame is in horizontal position at all times for even and controlled ink flow.

**Substrate Height Adjustment:** Hand wheel adjustment for off-contact setting with numeric position indicator to easily gage thickness and height of printing distance from screen frame to substrate. Located at the front of the machine.



## PRINTING STROKE DRIVE

Precision “brushless” Japanese motor for smooth and accurate travel of squeegee and flood coater. Digital speed control for acceleration and deceleration.

## BELT SYSTEM

Timing wheel with stainless steel reinforced cog-toothed belt for precise vibration free travel of squeegee and flood assembly.

## PRINT HEAD STRUCTURE

**Multiple Adjustments:** Pneumatic squeegee and flood coater with separate height, angle and pivot adjustment offer optimum printing control. Repeatable settings with angle scales. Includes neutral position for squeegee and flood coater.



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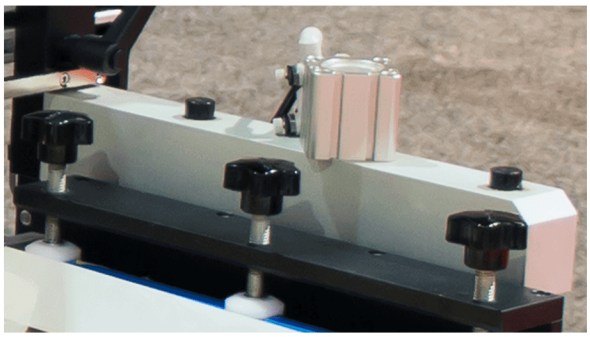
## PRINTING FEATURES

- **Peel-off function:** Pneumatic speed and height adjustments allow more control over mesh release from substrate during print cycle.
- **No-peel flood:** Screen lowers during the flood sequence optimizing flood coater control of ink shear in the image area.
- **Timer:** Single stroke by foot pedal or automatic stroke by timer.
- **Printing stroke:** Variable stroke length setting conveniently set from Touch Screen.
- **Automatic printing cycle mode selection:** Choice of printing before or after print stroke and flood while screen lifts.



## MICRO ADJUSTMENT

**Ball screw micrometers:** Accurate micro adjustment with ball screw micrometers. Fast and precise alignment of print table. No threaded screws that easily strip out and backlash. Screen adjustment in X and Y axis.

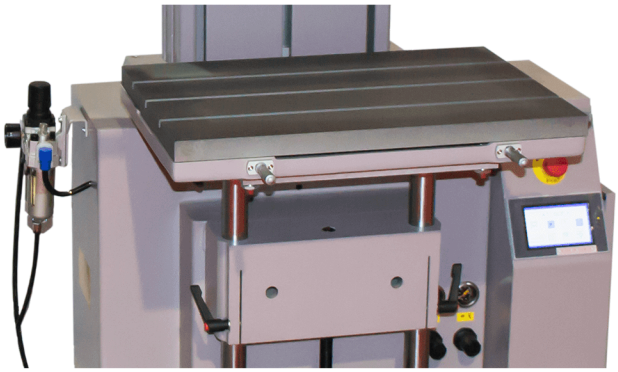
## PRINT TABLE

Honeycomb construction with solid structure and anodized aluminum surface. CNC milled cast base underneath print table for precise registration.

**Slotted table:** Three slots running width of the table to conveniently install and dismantle jigs and fixtures as needed.

## CHASSIS

**Solid rigid structure:** Welded steel with cast CNC milled surfaces.



## SAFETY

Equipped with emergency switch button and automatic back to original position. When safety bar is engaged print head stops immediately any further downward motion, and reverses head lift to full upright position. Compliant with CE and OSHA safety standards.



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# TECHNICAL SPECIFICATIONS

| | Items | Specification | AT-60FX |
|---|---|---|---|
| Specification | 1 | Maximum Printing Area | 400x550mm (15.7" x 21.6") |
| | 2 | Substrate Thickness | 0-300mm (11.8") |
| | 3 | Maximum Capacity | 720 P/H |
| | 4 | Table Height | 920+40mm (36.2" + 1.5") |
| | 5 | Applicable Air Supply | (70 – 110 PSI) 5~7kg/cm$^2$ |
| | 6 | Air Exhaustion | 7.8L/cycle (.28 cubic ft.) |
| | 7 | Power Consumption | 0.17kw (.8 Amps) |
| | 8 | Power Supply | 1 Ph,220V,60Hz |
| | 9 | Weight | 236 kg (520 pds) |
| | 10 | Dimension (D x W x H) | 790*1055*1530mm (32x42x60) |
| Screen Frame up/down | 11 | Screen Frame up/down | Cylinder + Linear guide rail |
| | 12 | Standby Height | 200mm (7.8") |
| | 13 | Cylinder for screen ↑/↓ | ψ63x200mm (2.48" x 7.8") |
| | 14 | Screen off-contact height | Manual adjusts 0~60mm (2.36") |
| Print Head Transmission | 15 | Print Head Speed | 110-730 mm/s (4.33"-28.74") |
| | 16 | Print Head Movement | right to left |
| | 17 | Print Head Transmission | Brushless motor+ Driven Wheel |
| | 18 | Printing Stroke | 630mm (28.74") |
| Screen Frame & Micro Adjustment | 19 | Max O/D Frame size(DxW) | 600x850mm (23.6" x 33.46") |
| | 20 | Min O/D Frame size (DxW) | 400x600mm (15.7"x23.6") |
| | 21 | Frame thickness | 25-40mm (.98" x 1.57") |
| | 22 | Screen Frame fasten mode | Manually Fasten |
| | 23 | Peel-off driven | Pneumatic |
| | 24 | Peel-off height | 20mm (.98") |

Change may be made without prior notice.



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| | Items | Specifications | AT-60FX |
|---|---|---|---|
| Print Head | 25 | Flat printing squeegee | W30*T9*70° (2000mm) 78.74” |
| | 26 | Flat printing Flood coater | H-Type flood coater |
| | 27 | Squeegee Skew-angle | 20±5° |
| | 28 | Flood Coater Skew-angle | 45±5° |
| | 29 | Print Head Skew-angle | N/A |
| | 30 | Squeegee Holder down stroke | 40mm (1.57”) |
| | 31 | Flood Coater down stroke | 38mm (1.5”) |
| Table Structure | 32 | Working Table Size(D x W x) | 400x600mm (15.7”x23.6”) |
| | 33 | Vacuum Area | N/A |
| | 34 | Vacuum Holes | N/A |
| | 35 | Table Micro Adjustment range | ±6/±6 mm ( ± .24" / ± .24" ) |
| Safety | 36 | Emergency Switch Button | included |
| | | | |
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