

SAMX meets the demands from the manufacturing industry for a productive multi-color screen printing process. It is ideal for rigid and heavy materials such as corrugated board, and for large size posters. Whatever the application area, the SAMX will perform fast screen printing, with easy and functional operations and with the utmost reliability. All operations - screen adjustments, speed settings etc. - are controlled from the user-friendly touch screen operating panels. This reduces the set-up time and enhance the conditions for optimised settings. Modern controls and flexible software promote all necessary functions on the operating panels.

With the pioneering UV-flash system, the ink cures instantly in between the printing stations and has many advantages. It is environmentally safe - no ventilation is needed, no ozone is emitted and the energy consumption is far less than conventional UV-drying. Furthermore, the system is much cooler which eliminates risks of fires due to overheating.



#### Standard equipment:

- For SAMX models 10x14 up to 16x25;  
Short stroke printing (squeegee movement).
- For SAMX model 16x33;  
Long stroke (cross-wise) printing (squeegee movement).
- Integrated PLC control system.
- Modem for remote on-line software service.
- Main LCD touch screen operating panel controlling the whole printing line with local LCD touch panels on each printing station; for setting and monitoring of printing parameters.
- Job storage system of printing parameters.
- Pre-registrating infeed system; adjustable frontlays and push/pull sidelays with photo sensors.
- Dynamic sheet flow; photo sensor system for full sheet control and preventing 'table printing'.
- Variable continuous holding gripper speeds.

- Multi-purpose grippers with minimal gripper margin.
- Maintenance-free timing belt drives for grippers and squeegee carriage.
- Automatic self-calculating pneumatic squeegee pressure equaliser system.
- Squeegee high lift system with parking position over drip plate.
- Variable and independent squeegee and flood coater speeds.
- Variable stroke lengths of squeegee and flood coater.
- Mechanical quick-lock/release system for squeegee.
- Horizontal flooding.
- Flooding before or after printing stroke.
- Timer after printing stroke
- Heavy duty vacuum system.
- Adjustable blow-back system.
- Motor driven off-contact adjustment.
- Adjustable peel-off.

- Hardened steel guiding system for grippers.
- Slide-in/out side loading of screens.
- Pneumatic frame locking.
- Motor-controlled micro registration of screens in X- and Y-axis.
- Motor-controlled "skewing" function of print frames (M-axis).
- Pioneering UV-flash curing system for intermediate drying;  
- choice of 1-10 flashes.
- Cross-walkable cover hoods over the UV-flash curing stations.

#### Options:

- Multiple vacuum zones - full and smaller printing formats - for minimal masking.
- Hard metal gripper points.
- Steel plate walkways along the SAMX.
- Air-cooled intermediate dryer tables  
- for extra fragile materials.

**SAMX UV-flash  
Model 10x14/16x33**

| <b>Model code</b>                                |                    | <b>10x14</b> | <b>14x18</b> | <b>16x21</b> | <b>16x25</b> | <b>16x33</b> |
|--|--------------------|--------------|--------------|--------------|--------------|--------------|
| Max. printing size                               | mm                 | 1000x1400    | 1400x1800    | 1600x2100    | 1650x2550    | 1650x3300    |
| Max. material size                               | mm                 | 1050x1450    | 1450x1850    | 1650x2150    | 1700x2600    | 1700x3350    |
| Max. material thickness                          | mm                 | 7            | 7            | 7            | 9            | 9            |
| Material weight                                  | gr./m <sup>2</sup> | 110-3000     | 110-3000     | 110-3000     | 130-3000     | 130-3000     |
| Max. frame size, short stroke printing           | mm                 | 1600x2000    | 2000x2400    | 2200x2700    | 2250x3200    | 2250x4000*   |
| Max. frame size, long stroke printing            | mm                 | n.a.         | n.a.         | n.a.         | 2250x3450*   | 2250x4200    |
| Max. frame profile                               | mm                 | 50           | 50           | 50           | 50           | 50           |
| Frame adjustment, X- & Y-axis                    | mm                 | ±5           | ±5           | ±5           | ±5           | ±5           |
| Frame adjustment, M-axis ("skewing")             | mm                 | ±5           | ±5           | ±5           | ±5           | ±5           |
| Gripper margin                                   | mm                 | 5            | 5            | 5            | 8            | 8            |
| Squeegee & flood coater speeds                   | m/sec              | 0.1-1.6      | 0.1-1.6      | 0.1-1.6      | 0.1-1.4      | 0.1-1.4      |
| Squeegee angle adjustment                        | °                  | 60-90        | 60-90        | 60-90        | 60-90        | 60-90        |
| Squeegee & flood coater vertical adjustment      | mm                 | 50           | 50           | 50           | 50           | 50           |
| Off contact, variable                            | mm                 | 3-20         | 3-20         | 3-20         | 3-20         | 3-20         |
| Peel-off height, variable, short stroke printing | mm                 | 0-50         | 0-50         | 0-50         | 0-50         | 0-50*        |
| Peel-off height, variable, long stroke printing  | mm                 | n.a.         | n.a.         | n.a.         | 0-80*        | 0-100        |
| Max. mech. cycle speed**                         | CPH                | 1000         | 900          | 850          | 600          | 500          |
| Infeed height                                    | mm                 | 1100         | 1100         | 1100         | 1200         | 1200         |
| Outlet height                                    | mm                 | 1020         | 1020         | 1020         | 1120         | 1120         |
| Machine width                                    | mm                 | 2400         | 2800         | 3100         | 3700         | 4130         |
| 2-color, length                                  | mm                 | 6600         | 8200         | 9000         | 11100        | 11100        |
| 4-color, length                                  | mm                 | 13000        | 16200        | 17800        | 22000        | 22000        |
| 5-color, length                                  | mm                 | 16200        | 20200        | 22200        | 27400        | 27400        |

\* Optional.

\*\* Cycles Per Hour (CPH) without feeding and curing time at stroke length for max. printing format (up to 5-color machine). Actual printing speeds vary depending on, the type of material and thickness, type of print job, and way of feeding.

*Please note:*

*Svecia's policy is one of continuous improvement and accordingly the manufacturer reserves the right to change specifications without prior notice.*

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