SAMX UV-scanning

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 optimized settings. Modern controls and flexible software promote all necessary functions on the operating panels.

With the Svecia Smart UV-scanning system, you'll find a high efficiency UV drying using less energy and running on standard voltage. The multiple lamp system is PLC-controlled and fully integrated with the printing machine. Automatic stand-by position, stepless setting from stand-by to full power of UV-lamps and adjustable speed of the UV- scanning carriage are additional benefits of this system.

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 PLC 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 equalizer 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).
- Svecia Smart UV-scanning system;
  - multiple lamp system on std.voltage.
  - automatic stand-by power of UV-lamps.
  - stepless setting 50-100% of UVpower.
  - energy level scanning and lamps hour counter.
  - adjustable speed of UV-lamp cassette carriage.
  - automatic air flow control for constant lamp temperature.
  - smoke detectors with automatic hood lifting and UV switch-off.
- Cross-walkable cover hoods over the UV-scanning curing stations.

Options:

- Multiple vacuum zones - full and smaller printing formats - for minimal masking.
- Hard metal gripper points.
- Steel plate walkways along the SAMX.

A new quality dimension in multi-color screen printing

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SAMX UV-scanning
Model 10x14/16x33

Model code		10x14	14x18	16x21	16x25	16x33
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./m²	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- and 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	900	800	750	600	500
Infeed height	mm	1100	1100	1100	1200	1200
Outlet height	mm	1020	1020	1020	1120	1120
Machine width (over in-between dryer)	mm	3100	3400	3700	4300	5000
2-color, length	mm	9000	10600	11400	11100	11100
4-color, length	mm	17800	21000	22600	22000	22000
5-color, length	mm	22200	26200	28200	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.

Date 01-09-10

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SAMX UV-flash

SAMX meets the demands from the manufacturing industry for a produtive 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 reduces material shrinkage and 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 PLC 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.

A new quality dimension in multi-color screen printing

SAMX UV-flash
Model 10x14/16x33

Model code		10x14	14x18	16x21	16x25	16x33
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^2	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.