

SPS® VITESSA XP

EQUIPMENT

| | Standard ★ | Option ● | XP 1 | XP 1+ | XP 2 |
|---|------------|----------|------|-------|------|
| original SPS® STOP Cylinder Principle™ | ★ | | ★ | ★ | ★ |
| sheet alignment system for invariable dot-to-dot registration | ★ | | ★ | ★ | ★ |
| opto-electronic sheet lay stop and pass detection: infeed, front & side lays, delivery belts | ★ | | ★ | ★ | ★ |
| manual tilting of screen carrier (off printing level, for cleaning and set-up) | ★ | | ★ | ★ | ★ |
| pneumatic tilting of screen carrier | ● | | ● | ● | ● |
| swivel-up squeegee bridge and screen carrier (set-up, cleaning & ink rest position) | ★ | | ★ | ★ | ★ |
| quick screen-change function: unlock & pull-out / push-in & lock | ★ | | ★ | ★ | ★ |
| operator panel with all main functions in central B side position, clear text indications | ★ | | ★ | ★ | ★ |
| stainless steel machine paneling ; walk-ways on A and B sides | ★ | | ★ | ★ | ★ |
| central grease lubrication with automatic feeding and level detection. | ★ | | ★ | ★ | ★ |
| equipment for on-line service data transfer | ★ | | ★ | ★ | ★ |
| SPS® EP rear pick-up feeder with vacuum infeed table enabling stream & single sheet feeding | ★ | | ★ | ★ | ★ |
| true size scales / gauges for format adjustments; central size tuning of feed board equipment | ★ | | ★ | ★ | ★ |
| SPS® EP with offset type feeder head, independent pick-up and forward movement, sheet skew | ★ | | ★ | ★ | ★ |
| SPS® EP compressed air nozzles for enhanced sheet separation from pile | ● | | ● | ● | ● |
| SPS® EP in high-pile version (max. + 300 mm) | ● | | ● | ● | ● |
| SPS® EP with non-stop facility (push-in rods) | — | | ● | ● | ● |
| SPS® EP with pre-stacking frame, incl. roller skid boards | — | | — | — | — |
| SPS® EP with servo-motorized sheet infeed (slip compensation) | — | | — | — | — |
| SPS® FP single sheet front pick-up feeder with servo-controlled slow-down | ● | | ● | ● | ● |
| sheet cleaning device, integrated in the feeder belt table | ● | | ● | ● | ● |
| centralized side guide positioning, externally accessible | ★ | | ★ | ★ | ★ |
| vacuum side guides, with fine-tuning for pulling force | ★ | | ★ | ★ | ★ |
| thin sheet side guides | ● | | ● | ● | ● |
| additional push mode on side guides, convertible | ● | | ● | ● | ● |
| polished stainless-steel vacuum cylinder in micrometric precision, with blow-back | ★ | | ★ | ★ | ★ |
| individually spring-loaded sheet grippers with ejectors in the cylinder | ★ | | ★ | ★ | ★ |
| leveled-off protected gripper recess with minimum off-contact | ★ | | ★ | ★ | ★ |
| 3-point screen adjustment, central B-side position, pneumatic lock-in | ★ | | ★ | ★ | ★ |
| screen carrier with pneumatic frame clamping, prepared for pre-registration | ★ | | ★ | ★ | ★ |
| print length correction system (adjustment to fit) | ● | | ● | ● | ● |
| SPS® PEH squeegee unit with central pressure control and read-out | ★ | | ★ | ★ | ★ |
| horizontal squeegee bridge adjustment (" top position ") | ★ | | ★ | ★ | ★ |
| digital squeegee set-point control, gripper margin and active print path adjustable | ★ | | ★ | ★ | ★ |
| motorized squeegee set-down with SPS® autoset height leveling | ● | | ● | ● | ● |
| SPS® C05™ squeegee blade system (RKS) with pneumatic holder, with angle adjustment | ● | | ● | ● | ● |
| pneumatic quick clamping of squeegee holder and flood coater profile | ● | | ● | ● | ● |
| equipment package for low-viscosity media (drip protection, control program) | ● | | ● | ● | ● |
| sheet delivery with vacuum hold-down and solvent vapor extraction | ★ | | ★ | ★ | ★ |
| adjustable sheet deflector guides in the delivery section | ● | | ● | ● | ● |
| drop-down delivery belt segment (set-up & cleaning position) | ★ | | ★ | ★ | ★ |
| SPS® synchroline package with synchronized sheet delivery (add a motor) | ● | | ● | ● | ● |
| anti-static basic set : discharge electrodes | ● | | ● | ● | ● |
| anti-static extension : ionized blast air | ● | | ● | ● | ● |
| anti-static upgrade package for industrial applications on film substrates | ● | | ● | ● | ● |
| anti-static addition : discharge electrodes on squeegee bridge | ● | | ● | ● | ● |
| SPS® serismart™ F : motorized format adjustment with digital size input | — | | — | — | — |
| enhanced GS safety package: light barriers with controlled overrun function | ● | | ● | ● | ● |

SPS® VITESSA XP

All specifications given in this brochure are subject to possible alteration.

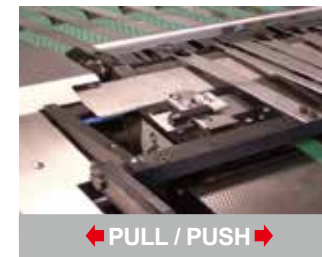
| TECHNICAL DATA | XP 1 | XP 1+ | XP 2 |
|--|------------------------------------|------------------------|------------------------|
| Max. sheet size (standard) l * w mm * mm in. * in. | 550 * 750 22 * 30 | 650 * 900 25 * 35 | 750 * 1060 29 * 41 |
| Min. sheet size l * w mm * mm in. * in. | 250 ¹⁾ * 300 10 * 12 | 280 * 420 11 * 17 | 280 * 420 11 * 17 |
| Print frame o/d (standard) l * w mm * mm in. * in. | 960 * 960 38 * 38 | 1070 * 1280 42 * 46 | 1140 * 1280 5 * 50 |
| Print frame o/d (optional) l * w mm * mm in. * in. | 880 * 920 34.5 * 34.5 | n / a | 1250 * 1320 49 * 52 |
| Cycle speed max. 1 / hr | 4500 | 4000 | 4000 |
| Length L mm / ft. in. | 3457 / 14' 4" | 4260 / 13' | 4260 / 13' |
| Width ²⁾ W mm / ft. in. | 1829 / 6' | 2165 / 7' 1" | 2165 / 7' 1" |
| Height ³⁾ H mm / ft. in. | 1650 / 5' 5" | 1660 / 6' 3" | 1660 / 6' 3" |

¹⁾ in single sheet feeder mode only ²⁾ platforms on A and B side ³⁾ in basic position

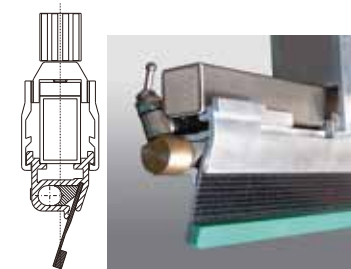
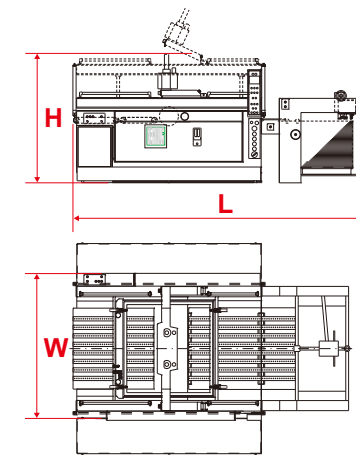
Optional



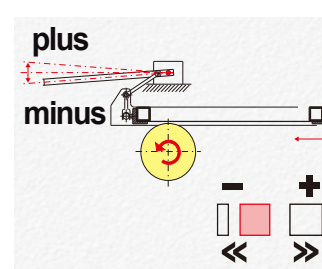
Synchronized belt speed to SPS® dryer
sheet transition without flutter and friction.



Vacuum side guide convertible
additional push function to align heavy substrates.



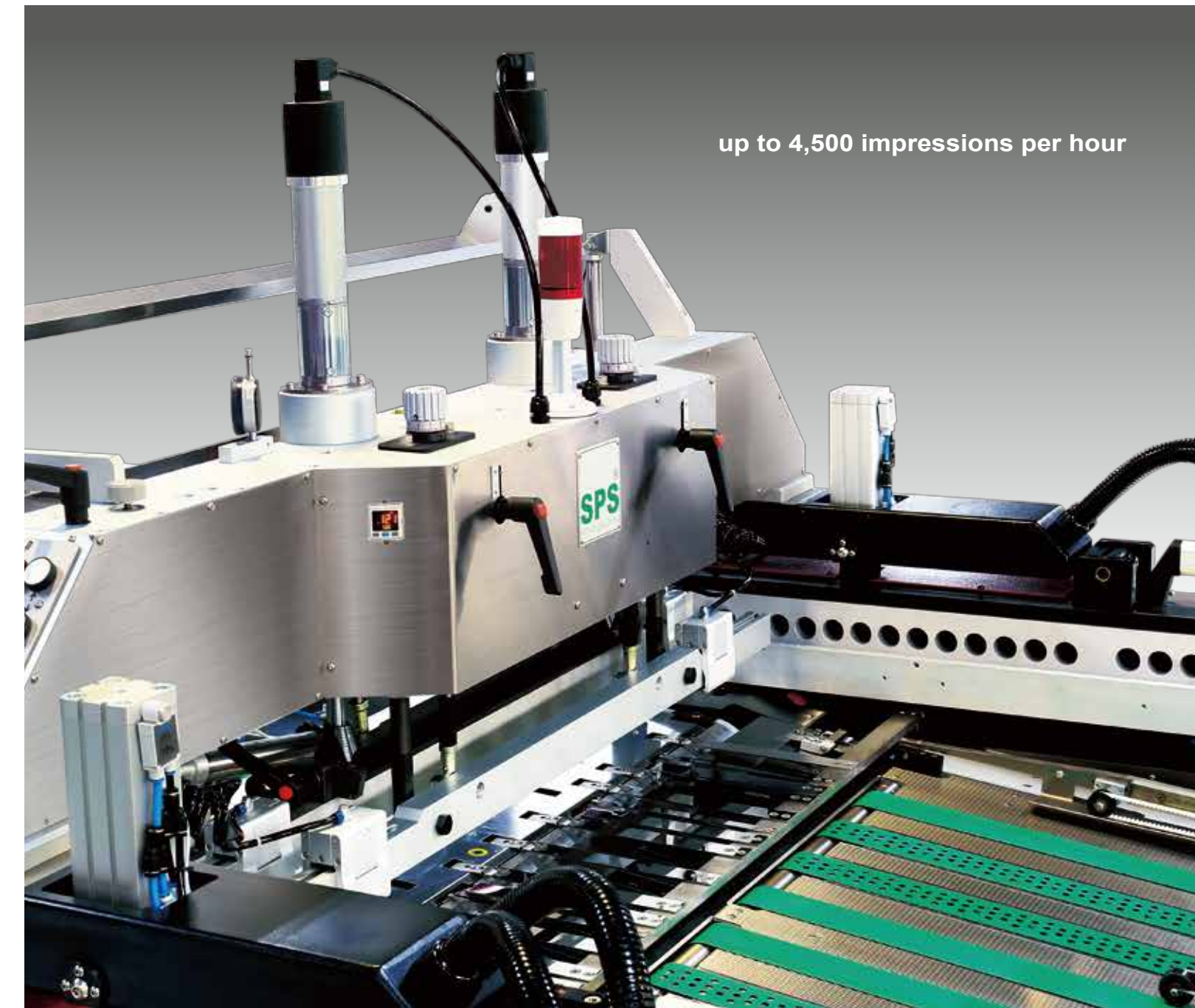
SPS® C05™ squeegee system with pneumatic clamping (RKS)
incl. standard profile holder.



Variable print length correction
perfect fit to given original and from color to color.



Motorized squeegee set-down
squeegee blade change with automatic height leveling.



up to 4,500 impressions per hour



SPS® VITESSA XP

Original SPS® High Speed STOP Cylinder Technology

Unrivaled solid construction, ease of operation and immediate return on investment have made the SPS® VITESSA screen printing machines the top-selling STOP cylinder presses in the world.

Based on the Original SPS® STOP Cylinder Principle™, the SPS® VITESSA XP combines this sound tradition with advanced operator comfort and highest running speed.



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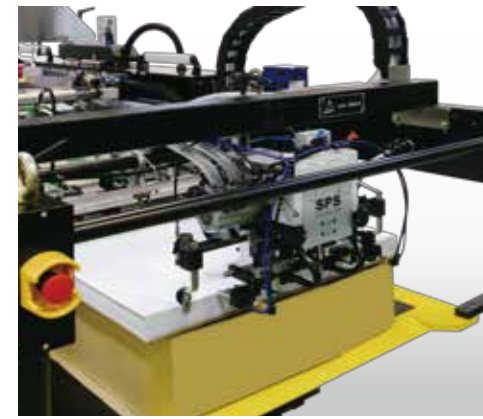
1 Unique SPS® sheet transfer system

with adjustable vacuum hold-down, sheet transfer reliable and table, enables scratch-free transfer and short setup time. Delivery may be integrated with an SPS® Jet / UV dryer for synchronization, and for solvent vapor extraction. (optional)



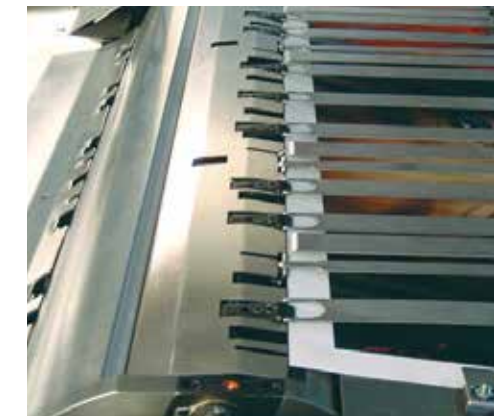
2 Unique SPS® squeegee technology

Ensures perfect control in the third dimension of the printed image, providing a uniform layer of ink from print start to stroke end. Pneumatic-hydraulic actuation leads to a likewise smooth and positive movement, electronically fine tuned to the cylinder rotation. Set squeegee pressure is automatically kept constant. The adjustable set point adapts to different job profiles with varying gripper margins, for printing full sheet area. With motorized Squeegee Set-down for option.



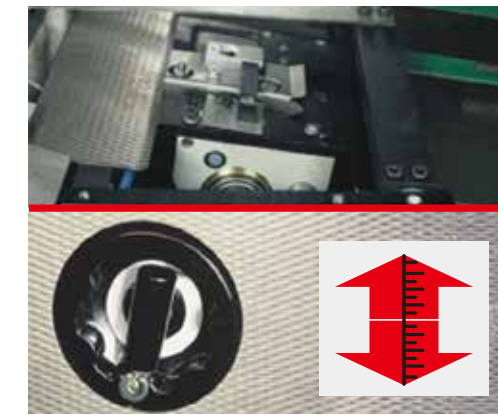
3 Offset type Feeder

The heavy-duty SPS® EP rear pick-up feeder with advanced separator head. Sheet take-up from the pile and transfer to the vacuum belt table are independently managed by pick-up and forward suckers. A double sheet detection and a sheet skew function for controlled turning are included. The sheet separation can be enhanced by optional nozzles with pulsating compressed air. Providing stream and on demand single-sheet operation modes. May be changed to optional SPS® FP servo-driven front pick-up feeder.



4 Around the Cylinder

The SPS® high precision print cylinder provides adjustable automatic sheet vacuum / blow-back system. Also with: sequence-controlled adjustable sheet smoothers, front edge lay stops with opto-sensors, spring loaded sheet grippers with integrated ejectors - all under clean cover.



5 Auto side guides

All adjustments to format size are combined with scales or gauges. Lateral positioning of the two side guides is externally accessible.



6 Centralized screen registration adjustments

Screen registration between color runs is made at the centralized three-point adjustment. Automatic frame clamping and locking into position is by the push of a button. Time-saving preregistration systems, used to maintain stencil position from screen making to press, fit perfectly.



The defining operating characteristics of the SPS® VITESSA XP :

At the touch of a button, the squeegee bridge swings up from print level into the raised set-up position, and the screen carrier can be tilted. In addition, the exit segment of the delivery belt may now be lowered. In this state, unrestricted access to the screen underside and the sheet guide system is opened. Returning from there to production is a matter of seconds only.



Swivel-up & drop-down all set for make-ready and inspection

SPS® VITESSA XP 1
with servo-driven FP front pick-up feeder in portal design ...