



SPS® VITESSA SL

SPS® High Speed STOP Cylinder Technology with Advanced Operating Features



SPS® VITESSA SL 2
with offset type feeder
EP in portal design ...

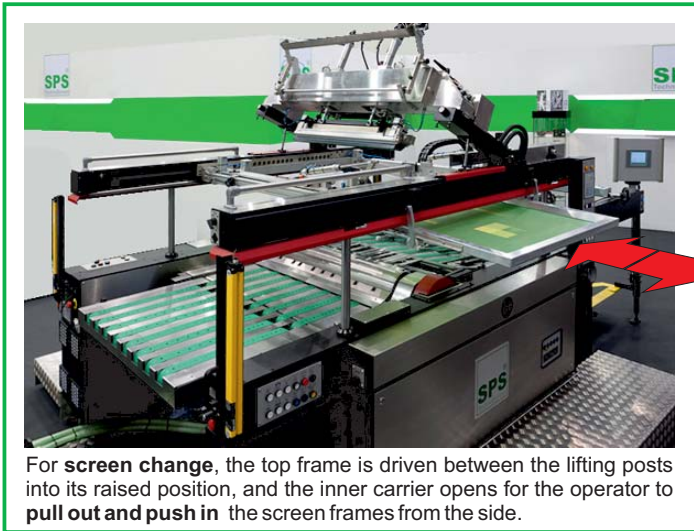
... up to 4.000 iph

The SPS® VITESSA SL is engineered to meet even the highest standards within the modern precision screen printing industry. **The solid top frame can be extended on four posts**, thus allowing direct access to the sheet stream without obstruction - for immediate inspection "on the fly". Short setup times and high ease of operation combined with best reproducibility.

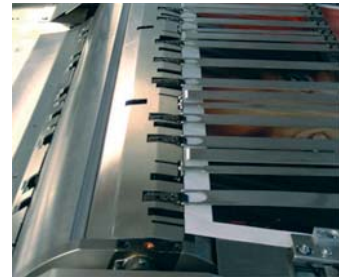
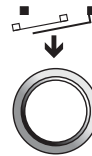
This way, even for the smallest runs, top net production results can be achieved: with the degree of precision that is exclusively guaranteed by the **Original SPS® STOP Cylinder Principle**®.



Adjustments within the sheet transport and alignment system - even corrections during the run - become a matter of seconds: **one central push to combiSTOP with TOPFRAME UP**.



For **screen change**, the top frame is driven between the lifting posts into its raised position, and the inner carrier opens for the operator to **pull out and push in** the screen frames from the side.



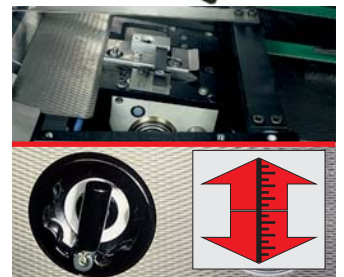
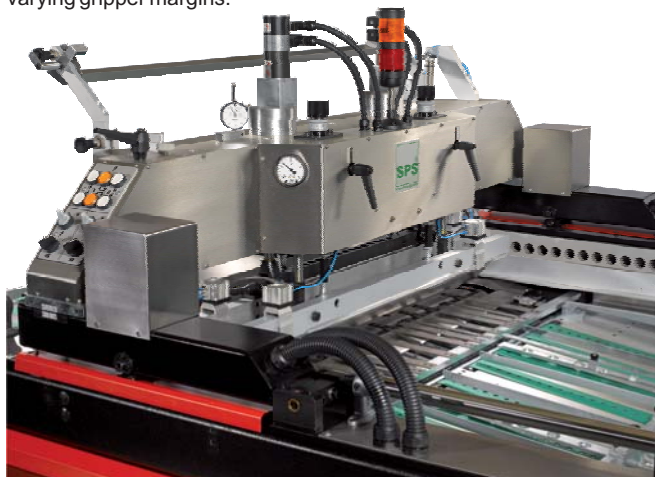
Offset-type sheet grippers secure the substrate position following its direct alignment at the front stops; **vacuum hold-down** guides the sheet around the cylinder drum during the printing stroke; **blast-air supported sheet ejectors** deflect it onto the **vacuum delivery belts**.



SPS® VITESSA SL 2
with feeder EP

The SPS® PEH Squeegee System

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.



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



3-point screen fine adjustment units are centrally located on the operator side, equipped with central pneumatic locking and unlocking of the set position. The screen holder perfectly matches with pre-registration systems.

SPS® VITESSA SL



Main panel with HMI



Air control panel

EQUIPMENT

Standard ■ Option ●

SL 1+ SL 2

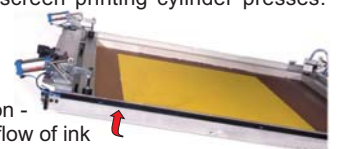
EQUIPMENT	Standard ■	Option ●	SL 1+	SL 2
Original SPS® STOP Cylinder Principle®	■	■	■	■
sheet alignment system for invariable dot-to-dot registration	■	■	■	■
vertical 4-post lift of top frame with screen carrier and squeegee bridge	■	■	■	■
swivel-up squeegee bridge and screen carrier (set-up, cleaning & ink rest position)	■	■	■	■
quick screen-change function: unlock & pull-out / push-in & lock	■	■	■	■
drop-down delivery belt segment (set-up & cleaning position)	■	■	■	■
leveled-off protected gripper recess with minimum off-contact	■	■	■	■
polished stainless-steel vacuum cylinder in micrometric precision, with blow-back	■	■	■	■
individually spring-loaded sheet grippers with ejectors in the cylinder	■	■	■	■
opto-electronic sheet lay stop and pass detection: infeed, front & side lays, delivery belts	■	■	■	■
rear pick-up stream & single sheet feeder SPS® EP with vacuum infeed table	■	■	■	■
offset type feeder head, independent pick-up and forward movement, sheet skew	■	■	■	■
high-pile version with EP feeder (max. + 300 mm)	●	●	●	●
non-stop facility on EP feeder (push-in rods)	●	●	●	●
pre-stacking frame with EP feeder, incl. roller skid boards	●	●	●	●
servo-motorized sheet infeed with EP feeder (slip compensation)	●	●	●	●
single sheet front pick-up feeder SPS® FP - with servo-controlled slow-down	●	●	●	●
sheet cleaning device, integrated in the feeder belt table	●	●	●	●
anti-static basic set: discharge electrodes	●	●	●	●
anti-static extension: orientable valves for ionized blast air, fitted at feeder pile corners	●	●	●	●
anti-static extension: additional discharge electrode, mounted to squeegee bridge	●	●	●	●
anti-static upgrade package for industrial applications on film substrates	●	●	●	●
compressed air nozzles for enhanced sheet separation from pile	■	■	■	■
true size scales / gauges for format adjustments; central size tuning of feed board equipment	■	■	■	■
SPS® serismart F : motorized format adjustment with digital size input	●	●	●	●
centralized side guide positioning, externally accessible	■	■	■	■
vacuum side guides, with fine-tuning for pulling force	■	■	■	■
additional push mode on side guides, convertible	●	●	●	●
sheet delivery with vacuum hold-down and solvent vapor extraction	■	■	■	■
adjustable sheet deflector guides in the delivery section	■	■	■	■
SPS® synchroline package with synchronized motor-driven sheet delivery (with dryer)	●	●	●	●
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® autose t 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)	■	■	■	■
touch-screen HMI with all main functions in central B side position, clear text indications	■	■	■	■
enhanced GS safety package: light barriers with controlled overrun function	●	●	●	●
central grease lubrication with automatic level detection	■	■	■	■
stainless steel machine paneling; walk-ways on A and B sides	■	■	■	■
equipment for on-line service data transfer	■	■	■	■

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

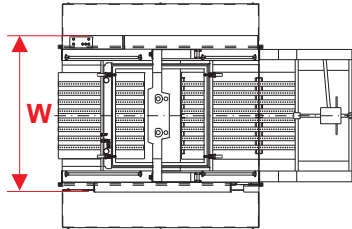
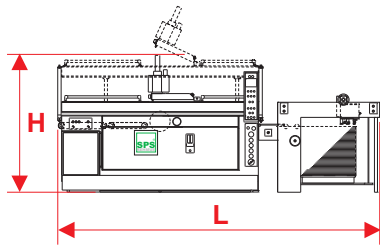


In the fully extended position of the machine top frame, unobstructed access to the horizontal screen underside and the sheet transport opens. This "**four post principle**" is the main characteristic of the flagship within the SPS® STOP cylinder program. In addition, the squeegee bridge swings up and the exit segment of the delivery belt may be lowered. The SPS® VITESSA SL features the highest possible degree of operator comfort ever seen with screen printing cylinder presses.

Screen carrier in parking position - to prevent back-flow of ink



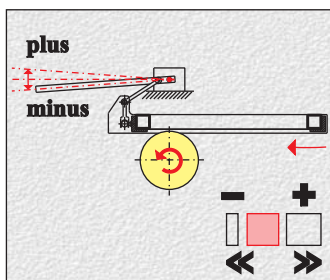
SPS[®] VITESSA SL



TECHNICAL DATA		SL 1+	SL 2
Max. sheet size			
l * w	mm * mm in. * in.	650 * 900 25 * 35	750 * 1060 29 * 41
Min. sheet size			
l * w	mm * mm in. * in.	280 * 420 11 * 17	280 * 420 11 * 17
Print frame o/d			
l * w	mm * mm in. * in.	1070/1090 * 1160 42 * 46	1140/1160 * 1280 45 * 50
Cycle speed max.		4000	4000
Length L	mm / ft. in.	4260 / 14'	4260 / 14'
Width ¹⁾ W	mm / ft. in.	2165 / 7' 1"	2120 / 7' 1"
Height ²⁾ H	mm / ft. in.	1900 / 6' 3"	1810 / 6' 3"
		¹⁾ + platforms on A and B side	²⁾ in basic working position



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

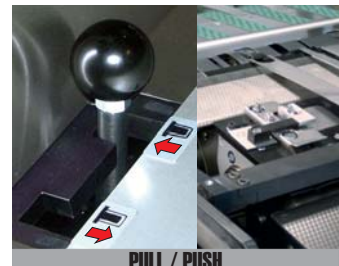


Variable print length correction: perfect fit to given original and from color to color.

Examples of available OPTIONS



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



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



Upgraded safety package with light barriers and controlled override.



SPS TechnoScreen GmbH
Kohlenstr. 63
D 42389 Wuppertal
Germany

Fon : +49 (0)202 2658 0
Fax : +49 (0)202 2658 185
eMail : sales@sps-technoscreen.com
: service@sps-technoscreen.com
Internet : www . sps-technoscreen.com