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# SPS<sup>®</sup> twin-flow

SPS<sup>®</sup> High Speed STOP Cylinder Screen Printing Line in unique *twin-flow* concept



Derived from the superior SPS<sup>®</sup> STOP Cylinder Technology, SPS<sup>®</sup> now makes possible the unique innovative concept that runs **twin sheets** synchronously through entire line: Feeder – Press – (Reject Sheet Selector\*) – Dryer – Stacker, pile to pile. This unique concept provides “**double throughput in one pass**” of sheets usually come in small format, such as greeting cards, certificates, securities, etc....

( \* nice to have for better work control )

And, it is wonderfully designed with wide compatibility to run single flow in either of the twin, and in one large format (spread of the 2 small twins). All necessary functions / facilities / controls for such wide compatibility have been thoughtfully integrated in the line component machines (model codes with “/t” at the end).

Available in two sizes, each adopts the luxury class SPS<sup>®</sup> Screen Printing Press featuring functions for optimal user friendliness and efficiency.

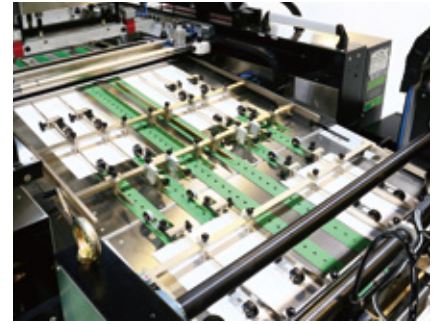
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EP/t twin-flow Rear Pick-up Feeder with twin feeder heads



FP/t twin-flow Front Pick-up Feeder



twin sheet flows on vacuum belt table

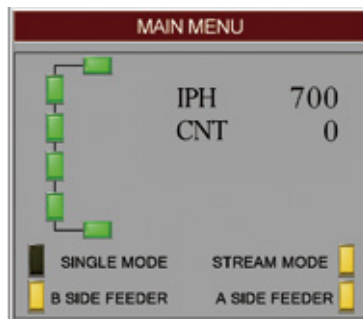


twin-flow in entire line

Reject Sheet Selector



twin-flow in register



twin-flow sheet monitoring control on Press HMI



AS/t twin-flow Stacker handling twin stacking

# SPS® twin-flow line component machines

## Feeder, twin-flow version (single-flow applicable)

Standard ■ Option ●

EP57/t FP57/t EP71/t FP57/t

<b>SPS® FVR EP/t Twin-flow Rear Pick-up Feeder</b> - offset type pick-up head for independent sheet separation, pick-up, stream/single-sheet forwarding, skew correction	■	--	■	--
<b>SPS® FVF FP/t Twin-flow Front Pick-up Feeder</b> - for sheet separation, pick-up, single-sheet forwarding (servo-controlled high speed forwarding ~ slow-down to position)	--	■	--	■
portal design, for ease of pile arrangement	■	■	■	■
heavy-duty steel skid board, for direct loading of pile on pellet with trolley	■	■	■	■
true size scales for format adjustments	■	■	■	■
compressed air nozzles for enhanced sheet separation from pile	■	■	■	■
feed-in trigger roller and double-sheet detection(linked to Press auto-stop control)	■	■	■	■
sheet cleaning device, integrated in the feeder belt table	●	●	●	●
anti-static basic: discharge electrodes on delivery	●	●	●	●
anti-static extension: orientable valves for ionized blast air, fitted at feeder pile corners	●	●	●	●
anti-static enhancement: for industrial applications on film substrates	●	●	●	●

## Press, twin-flow version (single-flow applicable)

XP57/t

SL71/t

<b>SPS® VTS XP57/t Twin-flow High Speed STOP Cylinder Screen Printing Press</b> (luxury class)	■	--
<b>SPS® VTS SL71/t Twin-flow High Speed STOP Cylinder Screen Printing Press</b> (luxury class)	--	■
<b>Original SPS® STOP Cylinder Principle®</b>	■	■
sheet alignment system for invariable dot-to-dot registration	■	■
vertical <b>4-post lift of top frame</b> with screen carrier and squeegee bridge	--	■
swivel-up squeegee bridge and screen carrier (wide opening for set-up, cleaning, in rest)	■	■
infeed table with adjustable vacuum & cradle roller for stable sheet forwarding to position	table with Feeder	■
opto-electronic sheet lay stop and pass detection: infeed, front & side lays, sheet delivery	■	■
left/right vacuum side guide positioning, externally accessible, pulling force adjustable	■	■
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	■	■
<b>quick screen-change function: unlock &amp; pull-out / push-in &amp; lock</b>	--	■
screen carrier with pneumatic frame clamping, prepared for pre-registration	■	■
3-point screen adjustment, central B-side position, pneumatic lock-in	■	■
SPS® <b>PEH</b> squeegee unit with central pressure control and read-out	■	■
horizontal squeegee bridge adjustment ("top position")	■	■
pneumatic quick clamping of squeegee holder and flood coater profile	■	■
digital squeegee set-point control, gripper margin and active print path adjustable	■	■
motorized squeegee set-down with SPS® <b>autoset</b> height leveling	■	■
adjustable sheet deflector guides in the delivery section	■	■
sheet delivery with vacuum hold-down and solvent vapor extraction	■	■
drop-down delivery belt segment, independent drive (set-up & cleaning position)	■	■
touch-screen HMI with all main functions in central B side position, clear text indications	■	■
SPS® <b>synchroline</b> with motorized sheet delivery (with SPS® dryer: in auto-synchronized speed)	■	■
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	■	■
anti-static basic: discharge electrodes on delivery	●	●
anti-static enhancement: for industrial applications on film substrates	●	●
anti-static extra: additional discharge electrode, mounted to squeegee bridge	●	●
SPS® <b>C05</b> squeegee blade system (RKS) with pneumatic holder, with angle adjustment	●	●
equipment package for low-viscosity media (drip/splash protection)	●	●
additional push mode on side guides, convertible	●	●
print length correction system (adjustment to fit)	●	●
enhanced GS safety package: light barriers with controlled overrun function	●	●
motorized screen adjustment: digital input externally	●	●

## Stacker, twin-flow version (single-flow applicable)

AS57/t

AS71/t

<b>SPS® STK AS/t Automatic twin-flow Sheet Stacker</b>	■	■
portal design, for ease of pile arrangement	■	■
heavy-duty steel skid board, for direct unloading of pile on pellet with trolley	■	■
true size scales for format adjustments	■	■
pulsed air-blow for accurate sheet arrival at pile	■	■
SPS® <b>synchroline</b> (with SPS® press: remote control)	●	●
anti-static basic: discharge electrodes at infeed	●	●
anti-static extension: orientable valves for ionized blast air, fitted at pile corners	●	●
color camera for stack supervision	●	●

# SPS<sup>®</sup> twin-flow line component machines

**Feeder, twin-flow version** (single-flow applicable)

**SPS<sup>®</sup> FVR EP57/t** (rear pick-up)    **SPS<sup>®</sup> FVF FP57/t** (front pick-up)

**SPS<sup>®</sup> FVR EP71/t** (rear pick-up)    **SPS<sup>®</sup> FVF FP71/t** (front pick-up)

**Press, twin-flow version** (single-flow applicable)

**SPS<sup>®</sup> VTS XP57/t**

**SPS<sup>®</sup> VTS SL71/t**

**Stacker, twin-flow version** (single-flow applicable)

**SPS<sup>®</sup> STK AS57/t**

**SPS<sup>®</sup> STK AS71/t**

## TECHNICAL

## DATA

### Max. sheet size

twin-flow, standard <sup>1)</sup>	mm * mm	550 * 267 <sup>1)</sup> (x2)	520 * 500 (x2)
l * w	in. * in.	22 * 10.5 (x2)	20.5 * 20 (x2)
single-flow, standard <sup>1)</sup>	mm * mm	550 * 750 <sup>1)</sup> (x1)	750 * 1060 (x1)
l * w	in. * in.	22 * 30 (x1)	19 * 41 (x1)

### Min. sheet size

twin-flow	mm * mm	297 * 175 (x2)	300 * 400 (x2)
l * w	in. * in.	11.7 * 6.9 (x2)	11.8 * 15.7 (x2)
single-flow	mm * mm	280 * 300 (x1)	300 * 420 (x1)
l * w	in. * in.	11 * 12 (x1)	11.8 * 14 (x1)

### Cycle speed

max.	1/hr	4500	2800	4000	2500
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### O/D dimension

Feeder		EP57/t	FP57/t	EP71/t	FP71/t
Length	mm / ft. in.	1380 / 3' 7"	1380 / 3' 7"	1650 / 5' 5"	1650 / 5' 5"
Width <sup>2)</sup>	mm / ft. in.	1380 / 3' 7"	1680 / 5' 6"	1650 / 5' 5"	1950 / 6' 5"
Press <sup>3)</sup>	mm / ft. in.	1490 / 4' 11"	1220 / 4'	1580 / 5' 2"	1290 / 4' 3"
Press		XP57/t		SL71/t	
Length	mm / ft. in.	2150 / 7' 1"		2690 / 8' 10"	
Width <sup>2)</sup>	mm / ft. in.	1860 / 6' 1"		2160 / 7' 1"	
Press <sup>3)</sup>	mm / ft. in.	1890 / 6' 2"		1930 / 6' 4"	
Stacker		AS57/t		AS71/t	
Length	mm / ft. in.	1590 / 5' 3"		2020 / 6' 8"	
Width <sup>2)</sup>	mm / ft. in.	1740 / 5' 9"		1980 / 6' 6"	
Press <sup>3)</sup>	mm / ft. in.	1150 / 3' 10"		1170 / 3' 10"	

<sup>1)</sup> when with standard O/D size 960 \* 960 mm (38" \* 38")

if with smaller screen size 880 \* 880 mm (34.5" \* 34.5"), reduced to: twin-flow 520 \* 345 mm (20.5" \* 13.5") (x2); single-flow 520 \* 710 mm (20.5" \* 28") (x1) <sup>2)</sup> + platforms on A / B sides

possible to enlarge width: twin-flow 550 \* 385 mm (22" \* 15") (x2); single-flow 550 \* 800 mm (22" \* 31.5") (x1), in so larger 960 \* 1000 mm (38" \* 39.5") screen is used <sup>3)</sup> in basic working position

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



**ATMA CHAMP ENT. CORP.**



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Bringing Print to Life