

LithoLiner

Reel-to-Sheet - Laminator Inline - Single Facer & Laminator

Combined with a BP Agnati WET-END
with VANTAGE SF Multiple Flute Single Facer

To meet highest demands of quality and efficiency to
laminate a single face corrugated we with pre-print sheets.
Suitable to produce high-value POS displays and packaging.



MADE IN GERMANY AND ITALY



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Reel-to-Sheet Laminating Machine

Machine with »On-The-Fly« – Register
– for high performance production



New designed precision high performance reel-to-sheet laminator for the corrugated and folding carton industry. Suitable to laminate a single face corrugated web with offset printed sheets, which gives the structural integrity of a corrugated box combined with the image quality of a litho-printed sheet. Single face corrugated web feeding from a reel (offline production) or rather from a Single Face Corrugator (inline production). In the complete configuration the machine is able to laminate offset printed sheets onto single face web, as well as pre-printed (flexo) liner web onto a single face web. A fully automatic line is equipped with a printed sheet feeder, a single sheet and compression belt and a non-stop stacking system with or without batch inverter (flip-flop). Additional available: pallet conveyor system for automatic pallet change.

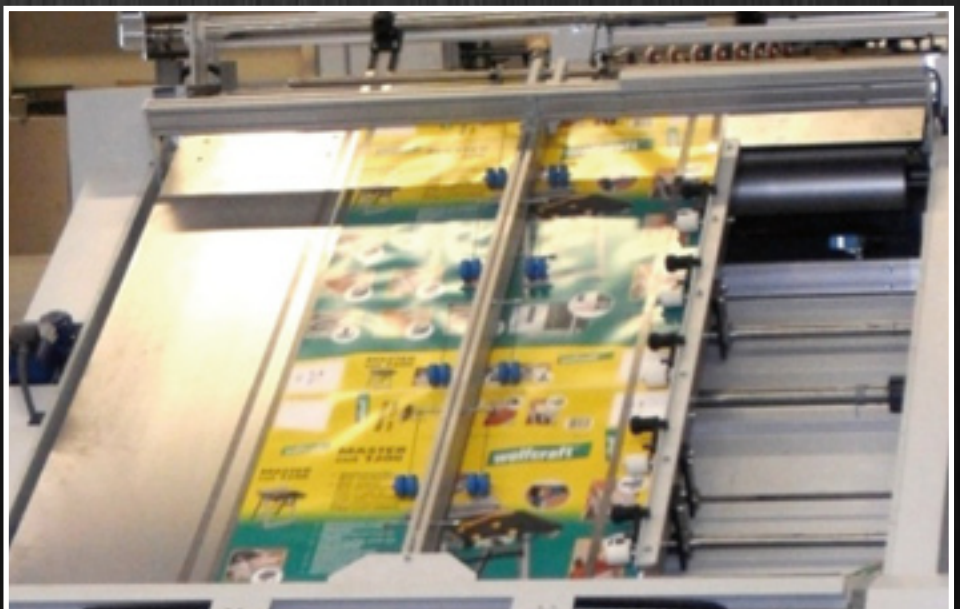
Including »on-the-fly« register system without mechanical stop of the printed sheets, for high performance.

Performance:

up to 10,000 sheets/h, with 2 operators.
Max. machine speed: up to 200 m/min.

Options:

- laminating flexo pre-printed rolls to SF
- sheet feeder for sheet-to-sheet lamination



Printed Sheet Feeder

automatic format setting & automatic pallet change



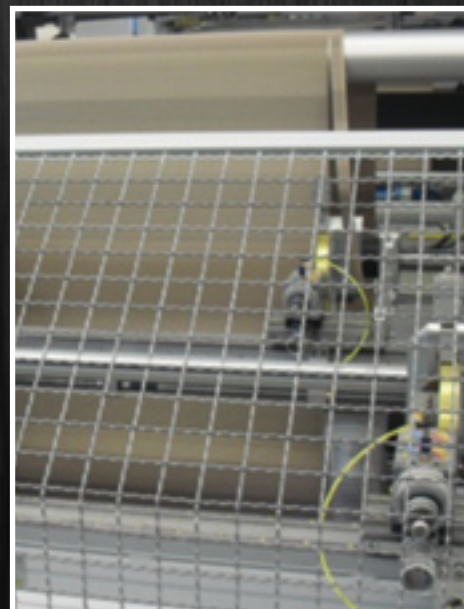
Web Transport Unit

Web draw unit, servo controlled, with lateral web guiding and slitting unit for the single face corrugated and pre-pr



Web guiding system (l.)

Edge trim unit for single face web – automatic format setting (r.)

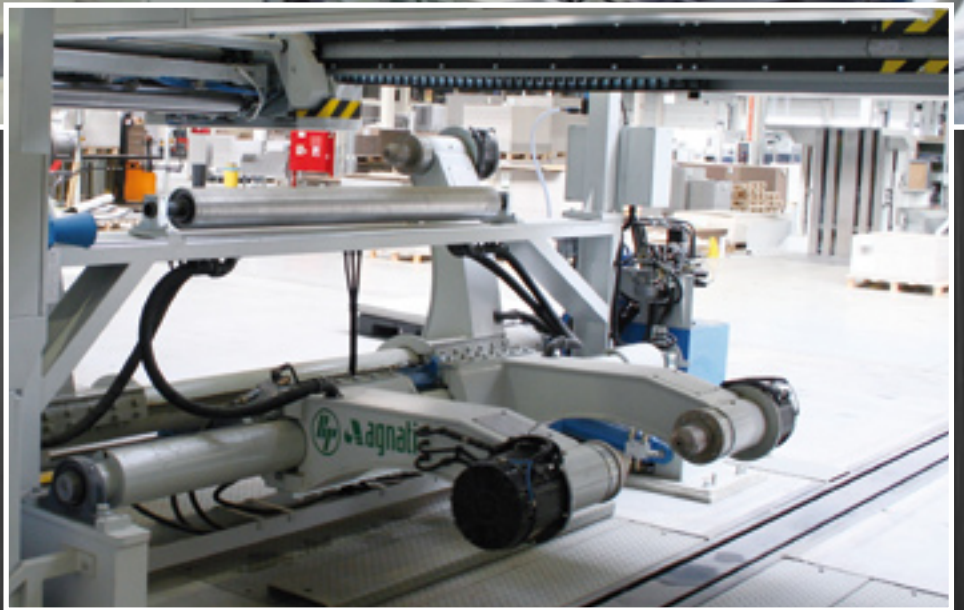


Additional Reel-Stand (Unwind)

for laminating a flexo pre-printed roll to single face web



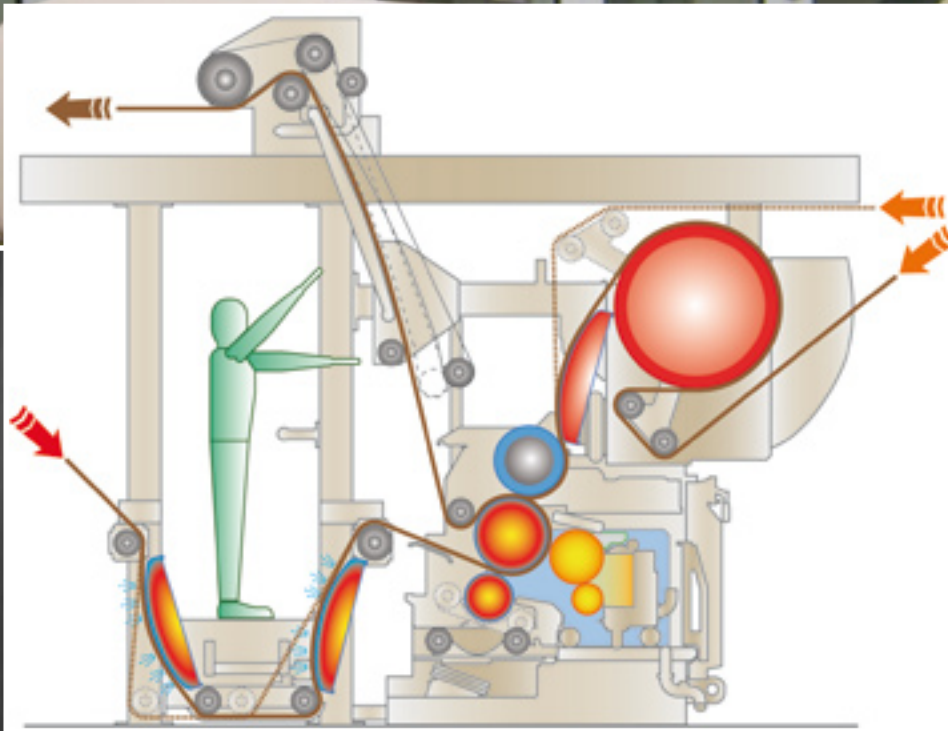
Reel-Stand with
control panel
BP Agnati



VANTAGE SF – Single Facer for Inline Lamination



**Corrugating Rolls with
reduced crown.
Reduced flute forming
labyrinth.
Pressure evenly distributed
on the full width.
Exclusive non metallic
Pressure Roll.
THE MOST ADVANCED FLUTE
FORMING TECHNOLOGY**

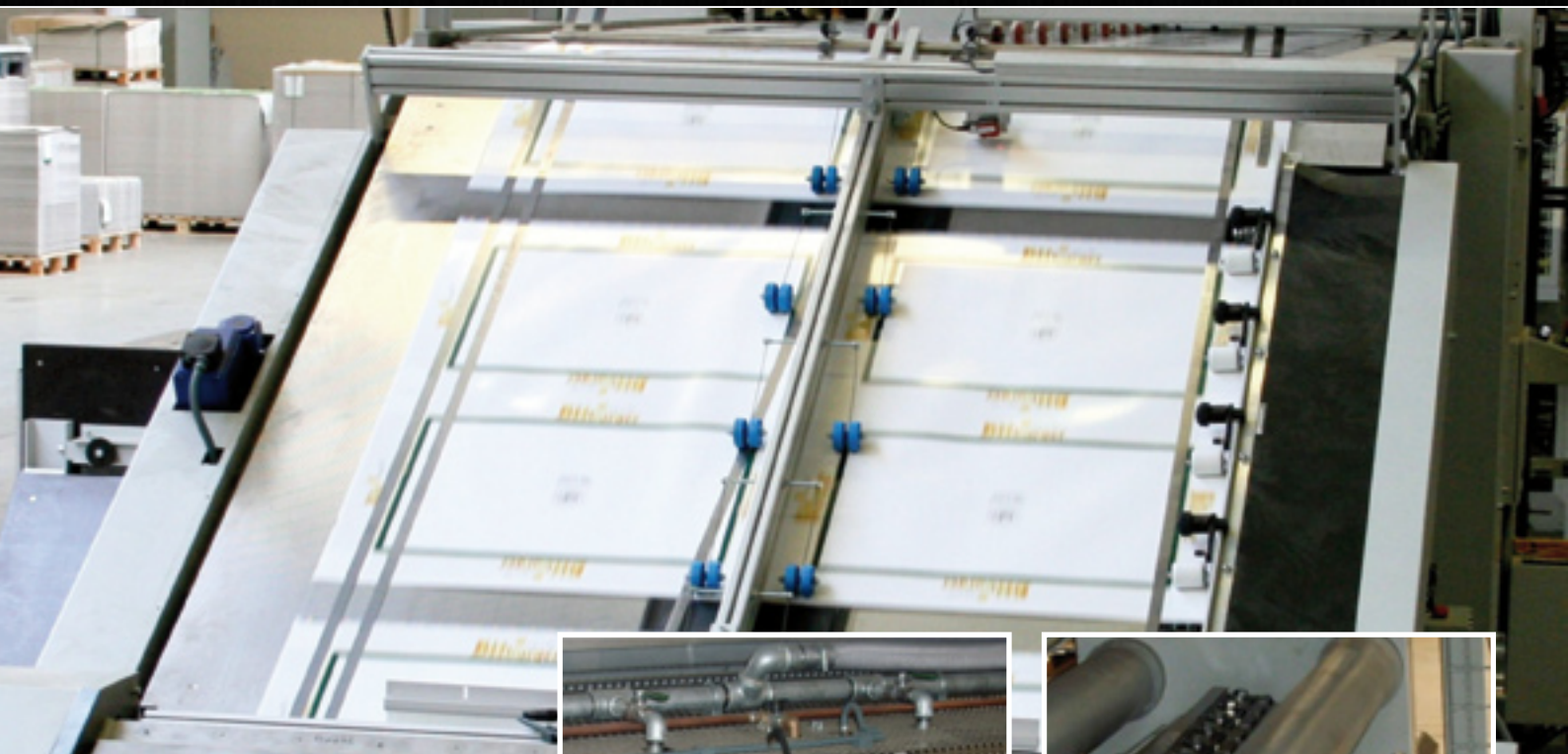


**V-PBM_S
Mill Roll Stand**

**V-GVR
High speed Splicer**



Laminating Station Model SRSL 7



Web feed & glue unit (l.)

Cross cutter (helical blade geometry) (r.)



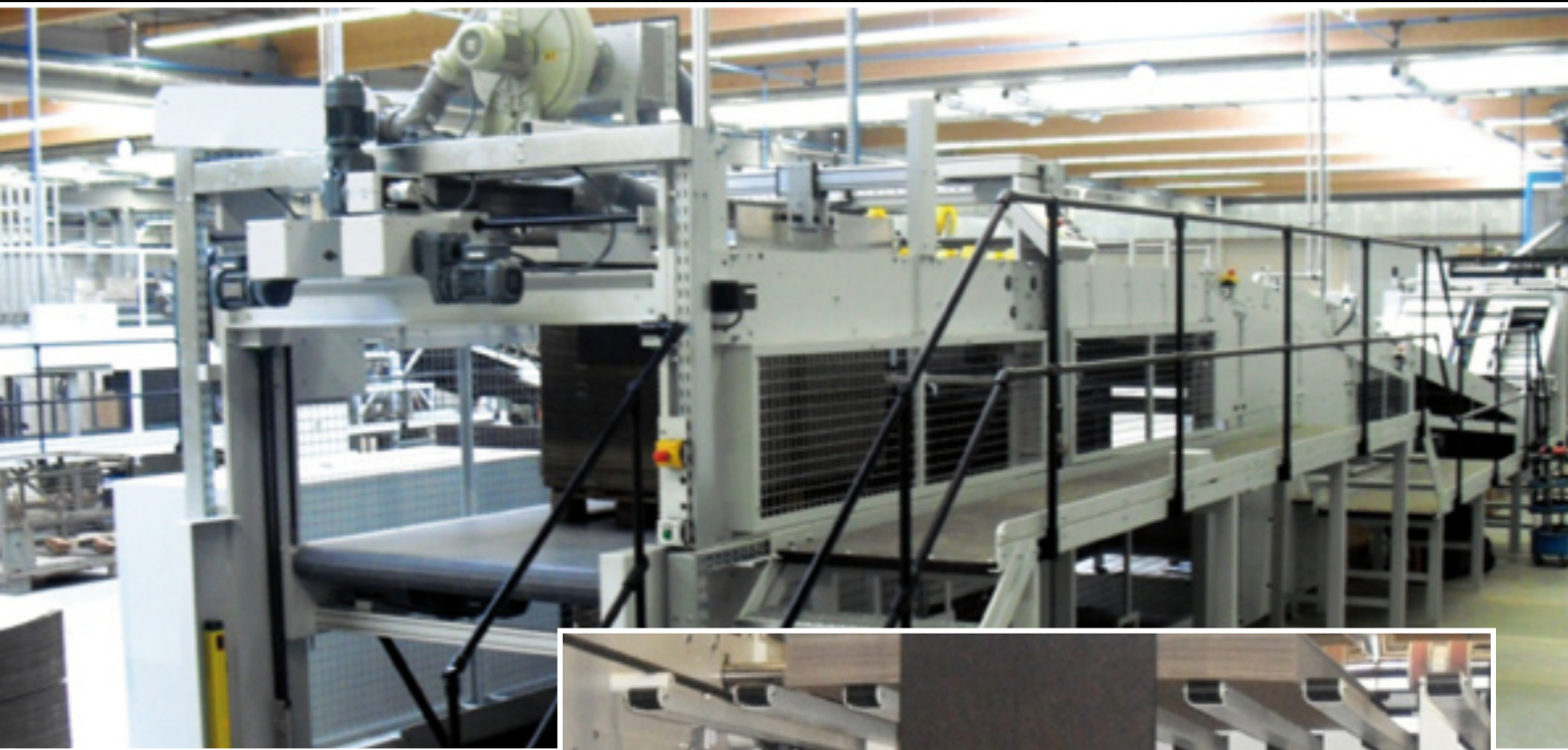
Option: roll-roll equipment (l.)

Option: unwind for tear tapes (r.)



Autom. non-stop sheet stacking system

consisting of a down-stacker, optional batch pile inverter (flip-flop)



Down-stacker with variable storage capacity, including pallet conveyor system suitable for the automatic pallet change



Variable non-stop device pallet reception by modular belt conveyor



Features of Laminator model SRSL 7

Laminating Unit

High performance laminator suitable to laminate offset printed sheets (approx. 120–400 gsm duplex board) with high production and high accuracy. Due to the automatic format change applicable and economical for running small orders as well as big orders. Favourable unit costs, reduced reject rate, optimized glue application, etc.

Fast and easy cleaning of the glue rollers by use of water only. Washing time: less than 5 minutes. Water consumption: 5 litres. »On-The-Fly« register mode: no more mechanical sheet stop and adjustment. The lead edge of the printed sheet is detected visually and readjusted by a servo motor during sheet motion (on-the-fly). Setting and amendment of sheet overlapping is possible at any time by the screen display. Lateral printed sheet adjustment during sheet motion.

Single Sheet Compression Section

Fast running single sheet compression conveyor behind the laminating machine and before the regular shingling compressure belt. Driven by a servo motor.

Pressure (Shingling) Belt

Shingle compression section for pressing (bonding) the mounted sheets, for single face corrugated. Dependent on the material quality it maintains the best possible glue application to produce flat sheets.

Automatic Printed Sheet Feeder

High speed back separation top sheet feeder with stream feeding. Equipped with a suction head, with lifting and forwarding suckers. Tape feed board with one broad conveyor tape with transport rolls. No more adjustment of transport rolls in case of order / format change. Incl. non-stop device for an inline-laminator.

Double sheet detector: single detection at the sheet feed table. A double sheet is discharged by activating a reject gate. Automatic format setting.

Pile board with motorized lateral pile board centring. Can be provided for automatic pallet change by roller conveyors or modular belt conveyors.

Lateral printed sheet adjustment during sheet travel on the left (operating) side.

Automatic non-stop Down-Stacker

Suitable for accurate sheet stacking to a pallet, with or without alternating inversion. With non-stop device for continuously production, with variable storage capacity. Pallet change: time available dependent on sheet caliper & machine performance. In case of warped sheets after sheet mounting it's recommendable to use a flip-flop (inverter). Available on request: conveyor system for automatic pallet change.

Automatic non-stop Batch-Pile Turner (Flip-Flop)

Unit to collect the mounted sheets in batches and invert them alternately, in case of producing warped (not flat). Consisting of a batch collecting unit with non-stop operation, an inverting unit (cage) for a batch height of up to 130 mm. High adjustment by photocell. 3 different operating modes are feasible: without inverting; alternately inverting; all inverting.

Web Transport Unit

Web draw device for feeding single face corrugated web, as well as the pre-printed web (roll-roll lamination), incl. lateral web guiding and edge trim unit (2 slitting modules).

An edge strip exhaust ventilation – exhausting the edge trims – has to be provided by the customer.

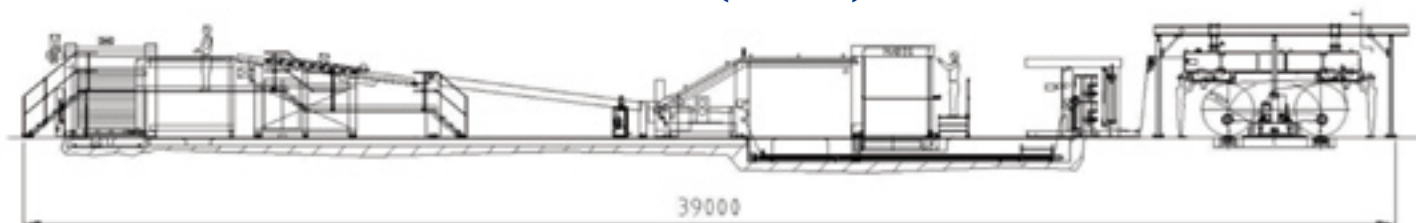
Technical Data

Working width:	1,640 mm (64")
Sheet lengths:	1,640 mm (64"), 2,050 mm (80.5") is possible
Single face corrugated:	B- / E- / F- & G-flute (chromo duplex carton GD2)
Printed sheets:	from approx. 120 – 400 gsm
Tolerances:	± 1 mm (0.04")
Performance:	dependent on sheet (cut-off) length and flute type, as well as material quality, flatness, skill of operators and machine status
	- up to 10,000 sheets per hour.
	- max. mechanical speed: 200 m/min.

Available Options

- roll-roll attachment: to laminate a pre-printed roll to the single face web
- sheet feeder for sheet-to-sheet lamination
- roll stand (unwind) for paper (liner) reel – roll-roll option
- roll stand (unwind) for unwinding of single face corrugated reels
- tear tape applicator with roll stand (max. 4 tear tapes)
- BP Agnati Single Facer (Master) for Inline-Production

Roll-To-Sheet Laminator with Roll Stand (Unwind)



Inline - Laminator with VANTAGE SF (BP Agnati)

