

Sheet-to-Sheet Laminating Machines



**for highest requests to quality and
accuracy as well as performance,**

**for laminating single and double face corrugated board,
double face corrugated board up to double-double –
open and closed flute – as well as solid board,
suitable for producing high value added display
and packaging.**

German Engineering

„HP“ – Automatic Sheet-to-Sheet Laminator model A-I4R5678 / P_HP

New designed fully automatic sheet laminator for flush sheet mounting with high accuracy. Suitable carrier sheets of single and double face corrugated board (E-/B-/F- and G-flute etc.) up to 7 mm thick-ness (double-double) BC-flute (open and closed), as well as solid board from 400 gsm upwards – dependent on material quality, with printed sheets from approx. 130 – 800 gsm. Automatic sheet feeding of the carrier and top sheets, automatic stacking system.

Combined with 'HP-mode' – on-the-fly registration without additional mechanical sheet adjustment – suitable for high performances as well.



laminated samples

machine with „HP-mode“ for high production – sheet adjustment „on-the-fly“



laminated samples

machine with mechanically sheet adjustment for „accurate registration“

Performances:

- „accurate mode“ up to 3,700 sheets / hour,
- „HP-mode“ up 10,000 sheets / hour,
- dependent on sheet length, with 2 operators.

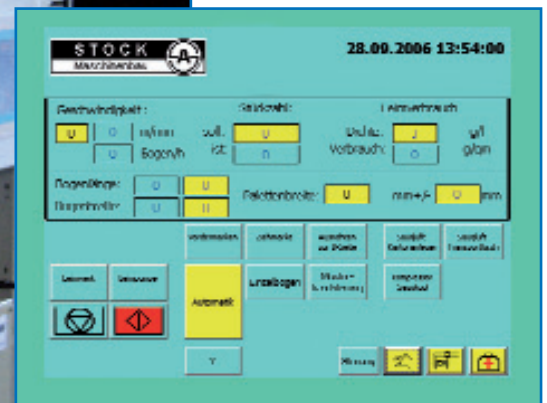
The combined machine is useful for mounting displays with high accuracy, as well as single face corrugated board with high production.

2 different modes are possible: sheet adjustment on-the-fly, mechanical adjustment by use of front- and side lays.

Available with high pile feeder for the carrier sheets of single face corrugated (B-flute, etc.) for high production.

Single face corrugated sheets could be processed with cross (lying) flutes as well.

Sheet Laminator model A-I



display -
touch screen panel



- double sheet detector



gluing unit with carrier sheet transport



glue flow gauge – glue consumption

Carrier (Substrate) Sheet Feeder – for Corrugated and Solid Board etc.



suction feeder model 4R –
for non-stop sheet feeding

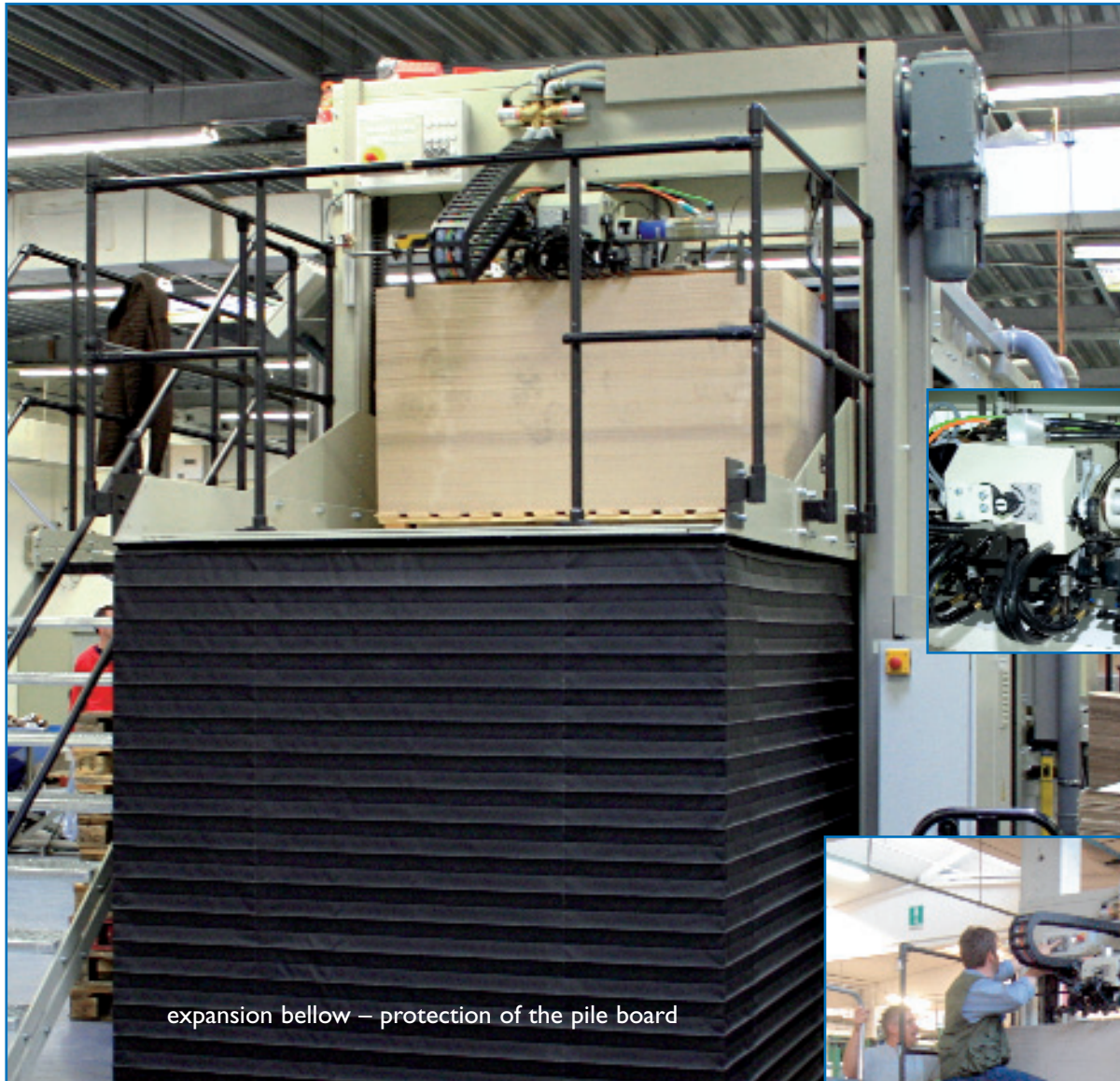
sheet separator, suitable
for high speed and single
face corrugated board



high pile feeder model 4B – with pallet logistic

Printed Sheet Feeder model 6

All feeder adjustments are motorized. Adjustment by pushing a push button by use of a position indicator.



expansion bellow – protection of the pile board



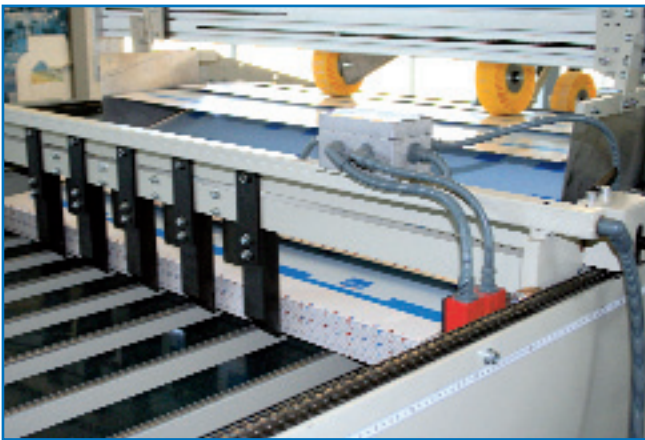
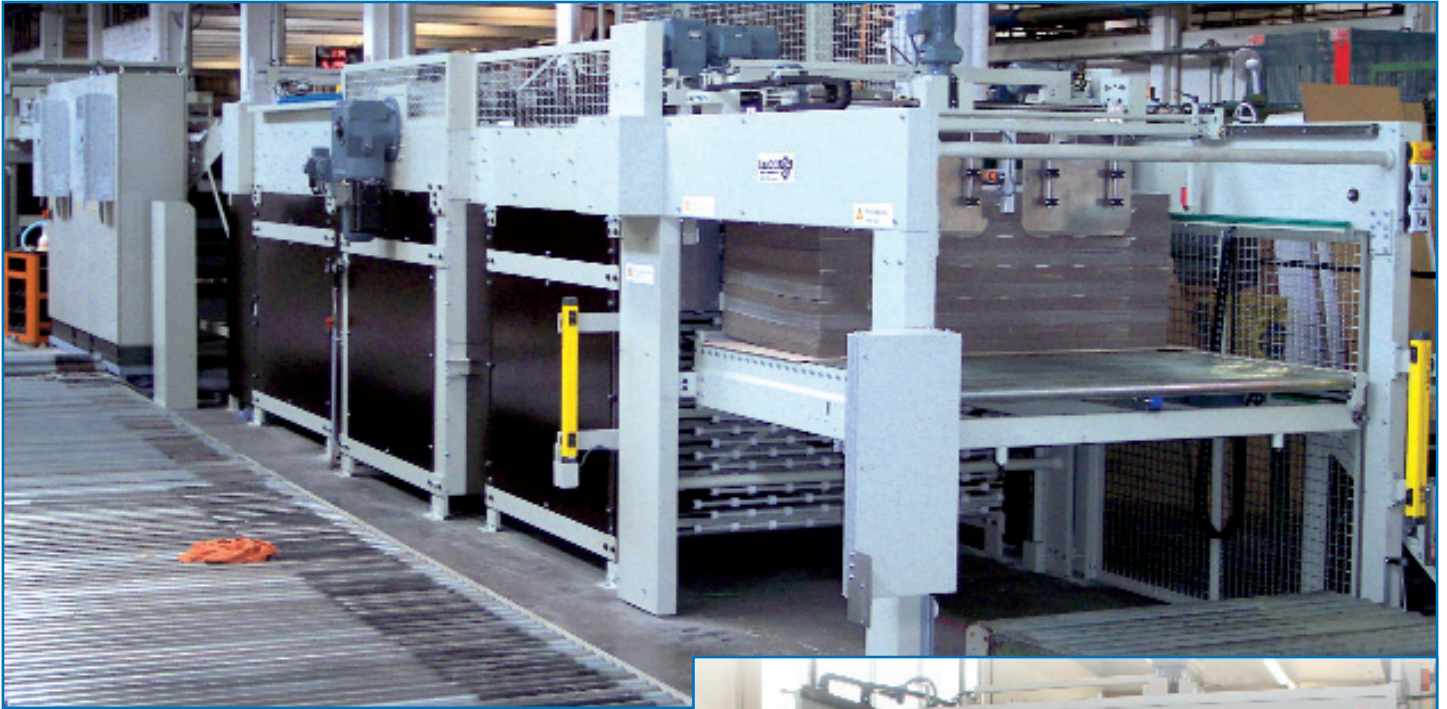
suction head with direct drive



Suspension of the suction head



Automatic non-stop Sheet – Stacking System consisting of a Down-Stacker model 7 and Flip-Flop model 8



sheet batch collector (flip-flop)



flip-flop (batch-pile turner) – adjustable batch height



down-stacker with roller conveyor system – suitable for
adjusting the position of the pallet in sheet direction

Features of the A-HP-Machine

Laminating Machine model A – I_HP

Accurate mode: lateral adjustment of the carrier sheets by push lay (operators and gear side). Electronically controlled front lay system (positive register) – for accurate sheet mounting: ± 0.5 mm. Obtained by the registering system, not by sensitive adjustment of the rollers.

High speed mode 'HP'. Detection of the lead edge of both sheets and electronically registration. 'HP'-mode particularly suitable for laminating single face corrugated board with offset printed sheets of 230 gsm, with accordingly higher tolerances.

Short set-up (make-ready) times, allows both short orders and longer runs to be completed efficiently and economically – minimum waste for setting up the machine. Reasonable unit cost calculation, minimum waste, minimum glue application.

Suction – Feeder model 4R

Integrated (magazine) hopper feeder for single sheet feeding. Continuously sheet feeding. Suitable for warped corrugated sheets as well. Manual pre-stacking of the sheet in the feeder magazine.

High Pile Carrier Sheet Feeder model 4B

High pile feeder with sheet separator for high speed, suitable for single face corrugated board as well; single sheet feeding; without non-stop device. Lateral pallet feeding, if possible by use of a roller conveyor system. The pile board is prepared for the adjustment of the pallet

Pressure Belt model 5

For pressing the finished mounted sheets

Printed Sheet Feeder model 6

High speed back separation top sheet feeder with stream feeding. Equipped with a suction head, with lifting and forwarding suckers, driven by an independent servo motor. Conveyor table equipped a tape and transport rolls, without manual adjustment. Incl. a double-sheet detector and motorized set-up of the feeder by use of position indicators.

Pull lay for the lateral adjustment of the printed sheets.

Non-stop Down-Stacker model 7

Suitable for the automatic, accurate piling / stacking of the mounted sheets to a pallet. Non-stop type. In case of getting warped sheets after the mounting process is recommendable to use an automatic flip-flop device (batch pile turner).

Roller conveyors for the pallet handling are available

Non-stop Flip-Flop model 8

For collecting warped laminated sheet in batches and inverting the sheet batches alternately. Consisting of a collecting unit and the inverting unit, non-stop type. Batch height: up to 120 mm.

3 different operating modes are possible: Alternately turning (inverting every 2nd batch). Turning each sheet batch. Without turning.

Technical data sheet:

sheet width:	max. 1,420 mm / 1,640 mm / 2,050 mm
sheet length:	max. 1,640 mm, 2,050 mm is possible
carrier sheets:	from approx. 0.6 mm up to 7 mm thickness
printed sheets:	from approx. 130 up to 800 gsm
tolerances:	accurate mode approx. ± 0.5 mm „HP“-mode approx. ± 1 mm

Performances:

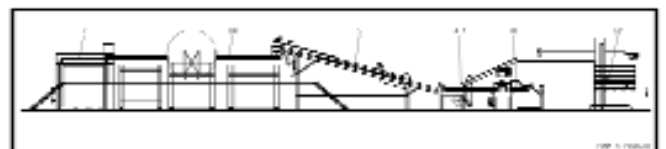
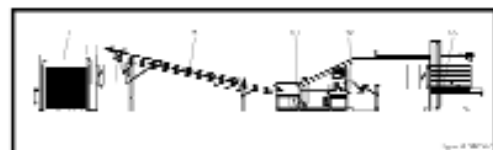
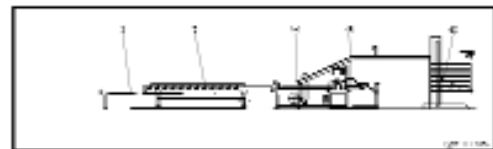
dependent on sheet length, material quality (sheet weight, stiffness, flatness, fibre and flute direction), etc.

Accurate mode with front and side registration:

– up to 3,700 sheets per hour

„HP“-mode without mechanical registration:

– up to 10,000 sheets per hour



Optional: a fully automatic machine set-up
SAFE is available.

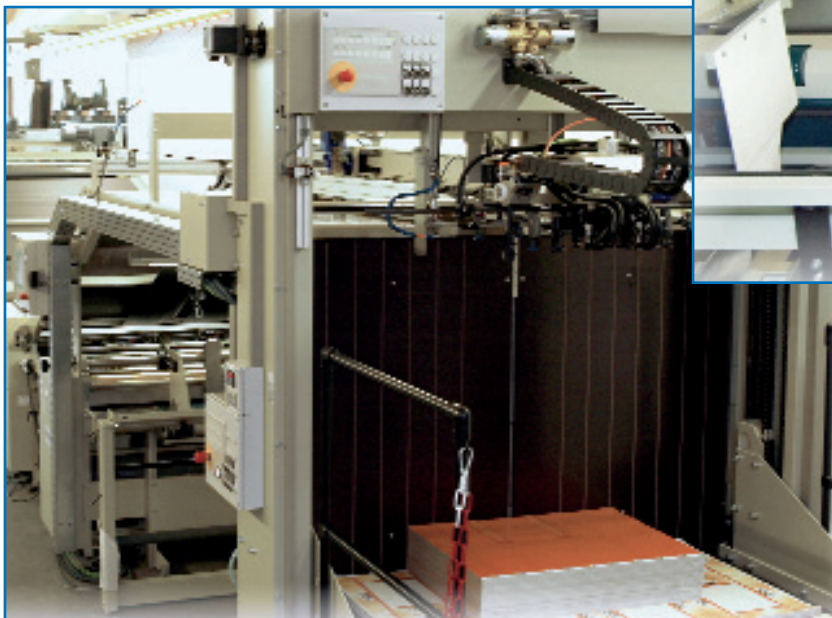
Automatic Laminating Machine model A-I4R5678/I650 P_HP & A-I4B5678/I650 P_HP



Fully automatic machine with 2 high pile feeders, flip-flop and down-stacker, suitable for laminating single face corrugated as well.



Fully automatic machine with a bottom sheet feeder for substrate sheets and a printed sheet feeder and down-stacker.



Our delivery program:

Sheet-to-Sheet Laminating Machines; Reel-to-Sheet Laminating Machines; Inline-Laminating Machines; Gluing Machines; Pattern (Stencil) Gluing Machines; Spot Labelling Machines (Spot Labellers); Sheet Feeders; Down-Stacker; Pressure Belts; Display Processing Machines Rotary Sheeter (Knife); Special Machines



STOCK Maschinenbau GmbH

Tannenwaldstraße 8 · D – 36323 Grebenau / Eulersdorf

Phone: (+49) 66 46 / 96 08 – 0 · Fax: (+49) 66 46 / 96 08 – 33

Internet: www.stock-maschinenbau.de · E-Mail: info@stock-maschinenbau.de