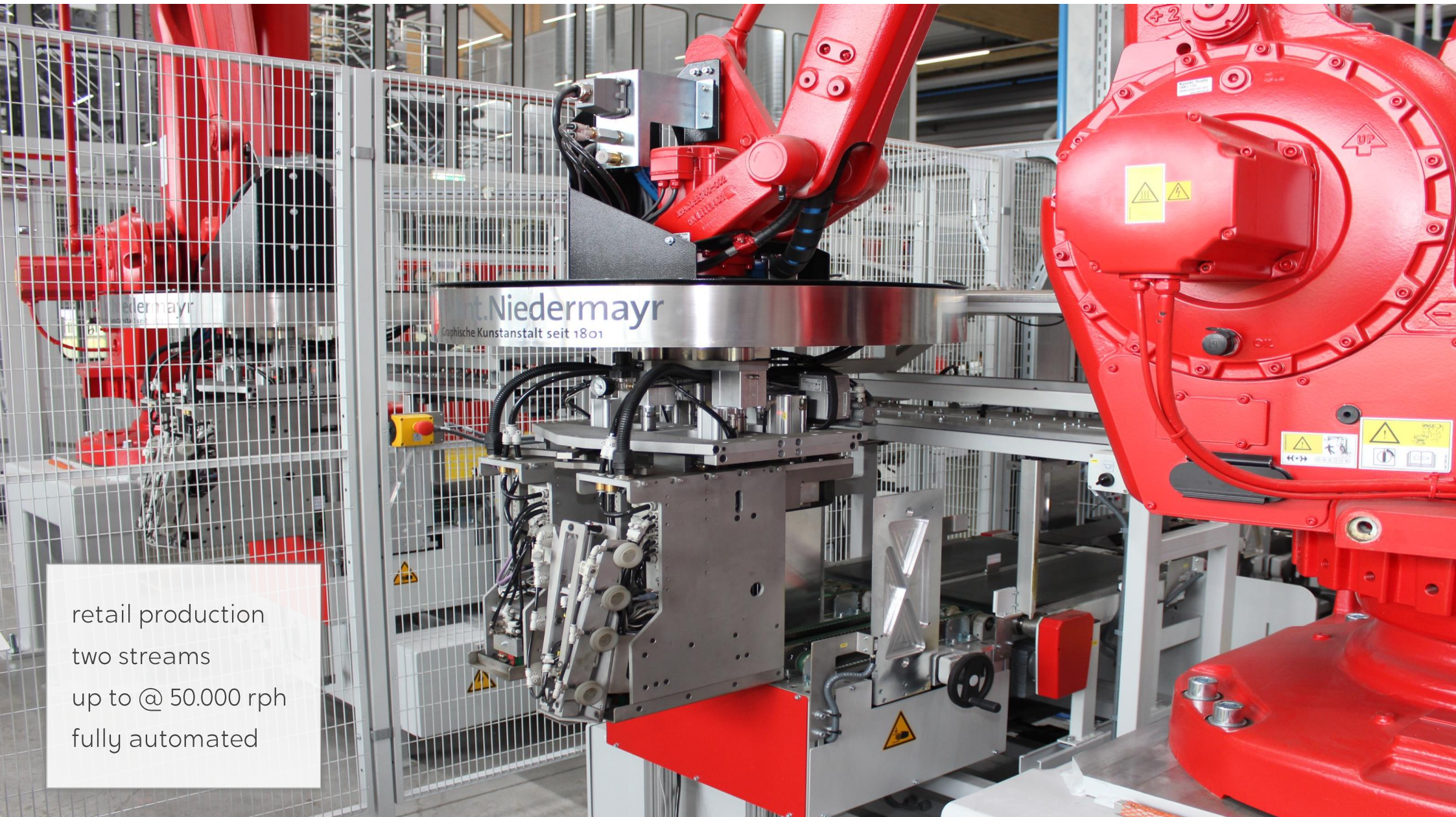


# High-end Post Press for 96p press



retail production  
two streams  
up to @ 50.000 rph  
fully automated



## Project Specs

### Press

Lithoman 96p, two folders (PCF, cutter)  
Up to 50.000 rph / 100.000 cph

### Main production(s)

Retail work, 12-48p, mostly A4-size

### Configuration Post Press

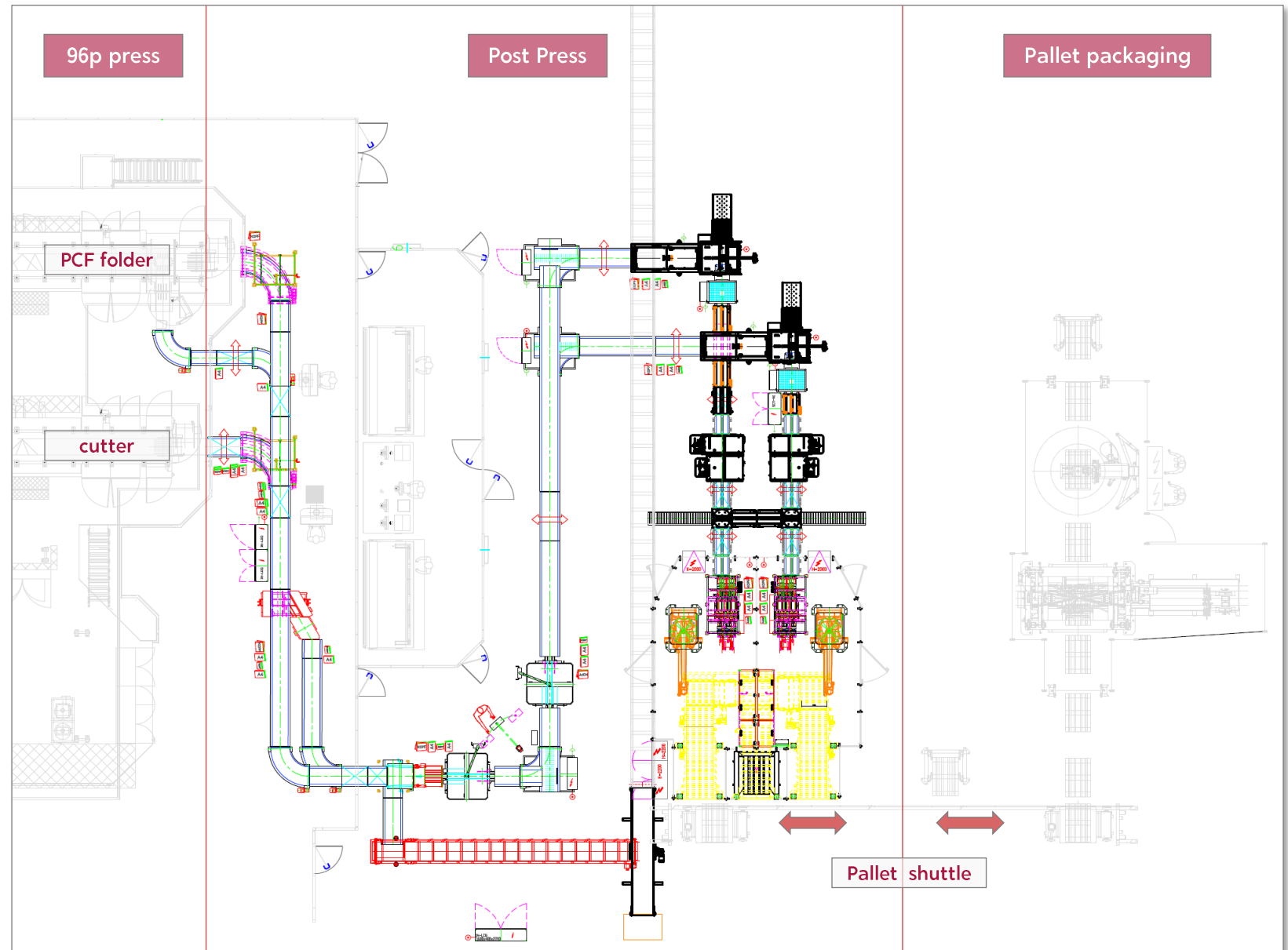
Complete system, fully automated including:

- Floor & high conveying, stream separator
- double stream trimming line
- lift stacking with electrostatic blocking
- bundle conveying & in-line cross-strapping
- robotic palletizing with two robot arms



►  
Complete system, fully  
automated behind a 96p  
press with two folders.

Able to produce up to  
100.000 retail products,  
whereby the products are  
3-side trimmed, stacked,  
cross-strapped & palletized.







The press is equipped with two folders:

The PCF folder (in the back) has 2 x A4 and 2 x A3 deliveries for long grain products

The PFF folder (in the front) has two deliveries for short grain products, three side open.

All 6 deliveries are merged into two streams for further processing.





The press is equipped with two folders:

Here the cutter folder delivers two streams of stitched 24-pagers.

After the flow turn, the two streams are merged with the two PCF-lines.





38 000 rph = 76 000 cph – the two streams from the cutter folder are merged with the conveying lines coming from the PCF-folder.

A stream separator on the lower line allows to split and separate a stream of nested products into two streams.









▲ The incline conveyor dumps the waste from the 96p press onto a central overhead waste conveyor which serves several presses.



▲ Waste from the conveying lines goes onto an incline conveyor



▲ One waste conveyor collects the waste from different presses and brings it to a central waste bin outside the building





Each conveying line integrates automatic waste ejection, stream aligner and squeeze roller. All waste is dumped on a central waste conveyor bringing the waste outside of the building.

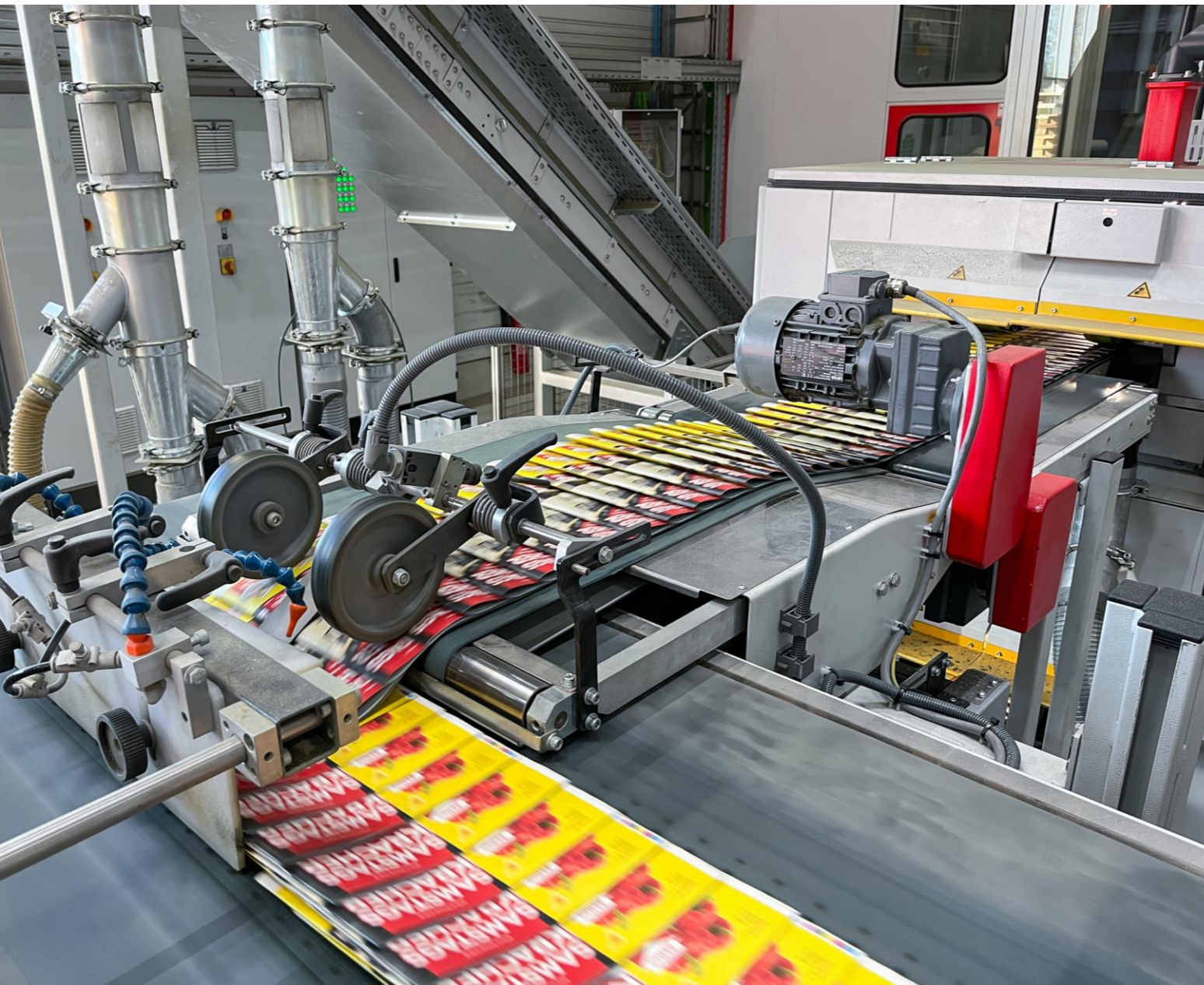
A first double stream trimmer will trim head and foot and deliver the streams onto a double stream bump turn.



►  
After the double stream  
bump turn a second  
double stream trimmer will  
trim the open side.  
At the exit of the trimmer a  
long conveying section  
transports the two streams  
to a combination of double  
stream bump-/ flow-turns.







Between the two double stream trimmers a double stream bump turn redirects the copies of the two streams. The outfeed belt of the bump turn is vacuum assisted – after bumping the copies are securely held on the delivery conveyor of the bump turn.







At the exit of the trimmer a long conveying section transports the two streams to a combination of double stream bump-/ flow-turns.

Configured as low and high conveyor a passage with enough clearance for the operators and the pressmen is achieved.





Both compensating stackers have a straight infeed. In this configuration the streams are not bend in the infeed but run in a straight line to the upper bin of the stacker – the risk of marking and jams is minimized.





- ▲ The lift stacker CS 3160 runs at more than 100.000 cph. The two servo lifts in the upper bin gently build high quality stacks, synchronized with the press speed. Each CS 3160 is equipped with a high-end HMI with graphical interface.







◀ Each stacker is coupled to a blocking unit. Bundles are compressed & electrostatically charged for perfect stability.

Before traveling towards the robot, the stacks can optionally be single, double or cross-strapped. Strapping is done in-line, without any bundle turning.





►  
A perfect way to avoid two  
“broken” pallets at the end  
of a run – the „Load  
Balancer” will redirect the  
last stacks of a run onto  
one palletizing line  
resulting in only one  
broken line.

In addition, the „Load  
Balancer” is also a simple  
back-up in case one of the  
palletizing lines is down.





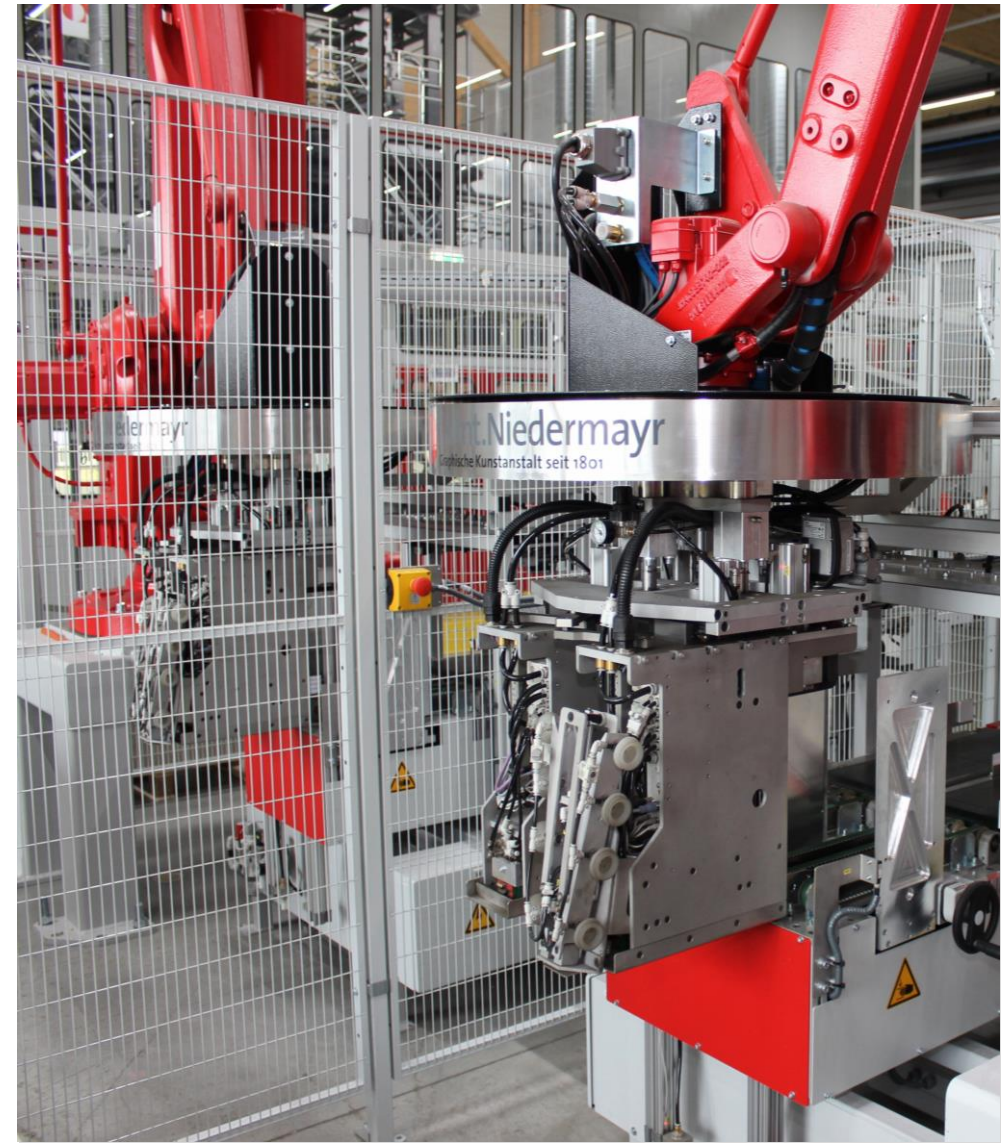


▲ The palletizing area – fully automated, with two robots, including empty & full pallet conveying.





▲ The palletizing area integrates two robotic arms, each of them handling one line. The system can either run from 2 lines onto 2 pallets or from 2 lines on either of the 2 robots.

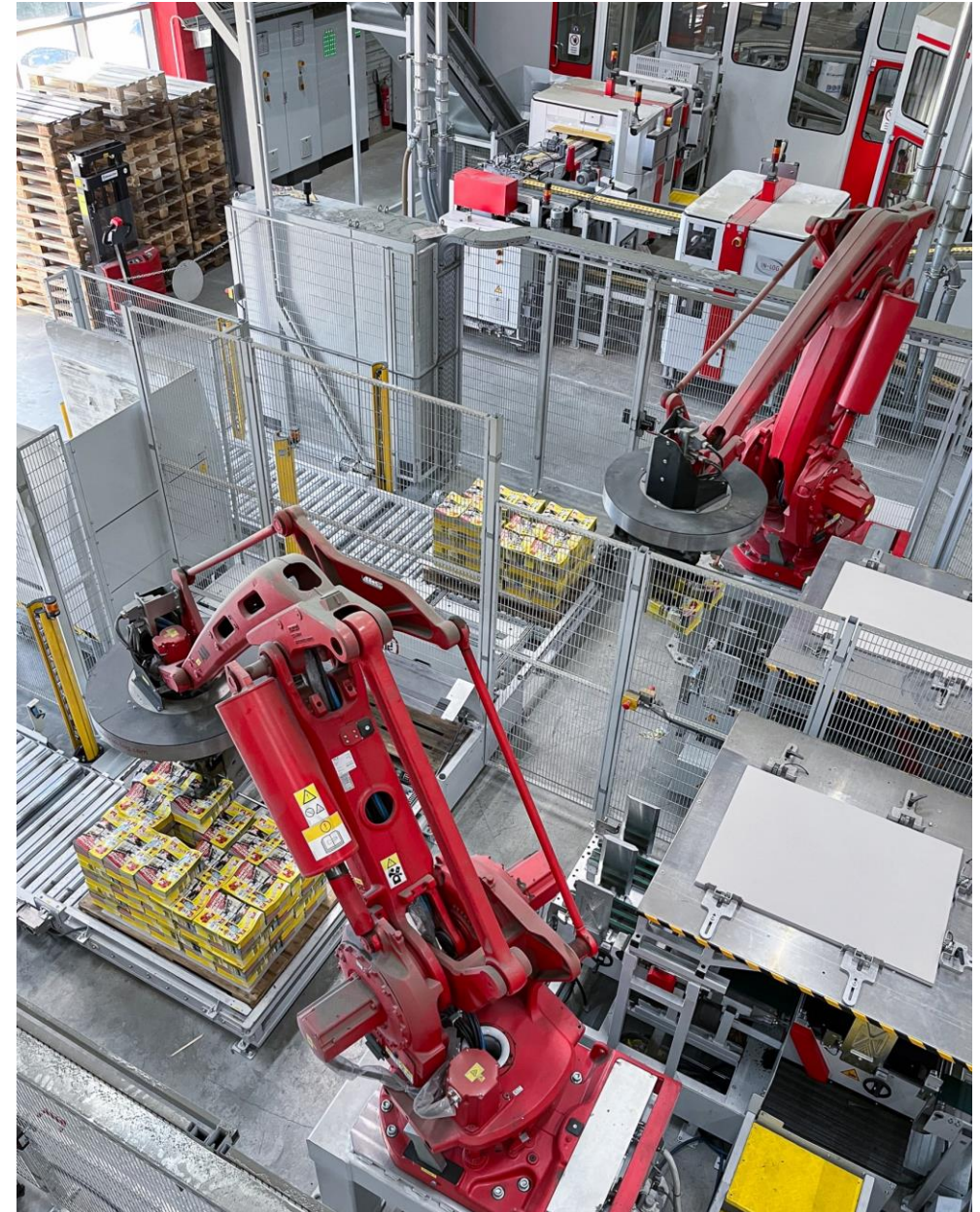


▲ The double gripper takes two bundles in each cycle and can palletize up to 1000 bundles/h (product permitting)





▲ The palletizing area integrates two robotic arms, each of them handling one line.

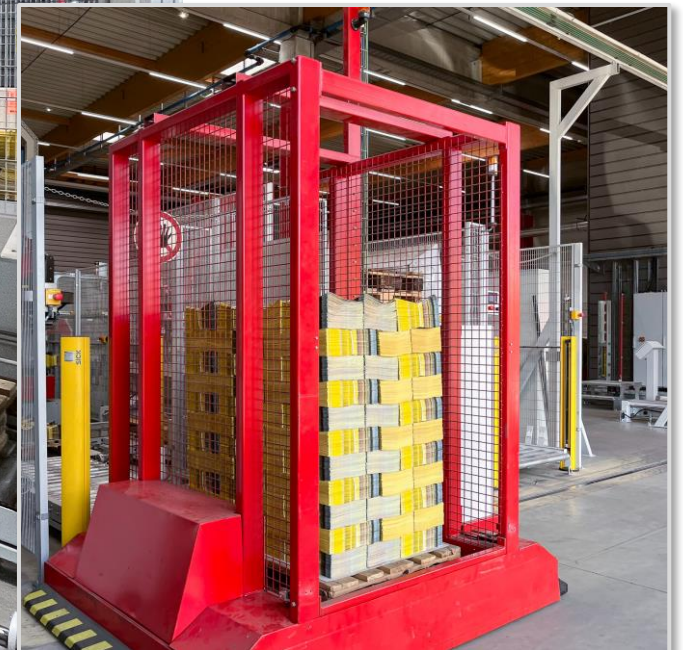


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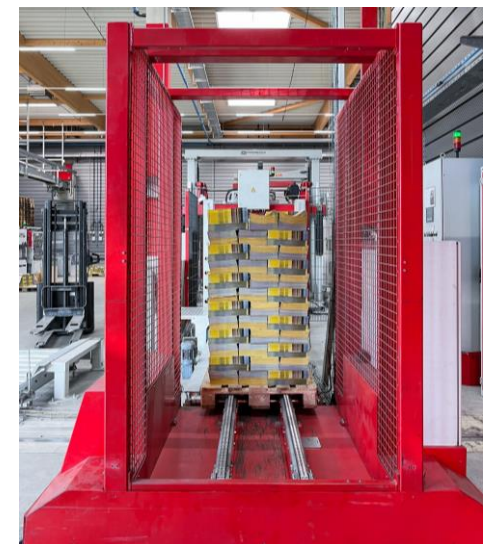
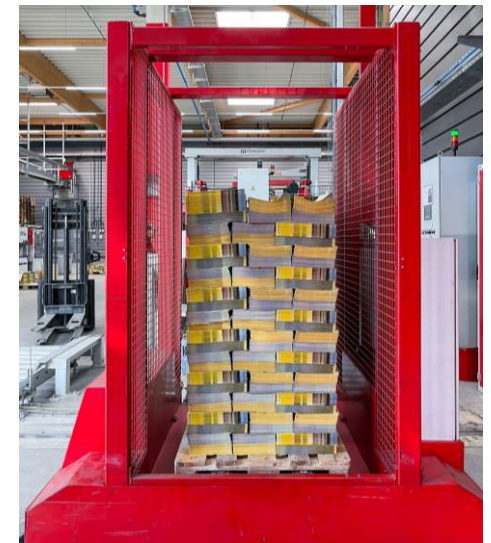




◀ Full pallets are picked-up by a pallet shuttle and transported to a pallet strapping and film wrapping line. The shuttle is triggered by the Post Press system.







▲ The shuttle delivers the full pallets onto an automatic line for pallet strapping and stretch wrapping.





▲ The „Beast” – a 96p Lithoman web press with two folders, able to deliver more than 5 million of inserts per day. Behind the folders a fully automated Post Press System transforms the shingled streams in trimmed and stacked bundles, nicely palletized.





▲ The result at the end of the whole workflow – pallets of great quality, strapped and film wrapped



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THE WHOLE IS MORE  
THAN THE SUM OF THE PARTS

