High-volume log stacking

IN-LOG
GÄMMERLER

magazine production
one or two streams
@ 42.500 cph
logs & stacks
fully automated

Project Specs

Press

Lithoman, 80p, up to 40.000 cph

Main production(s)

Magazine work, 20-64p, mostly A4-size

Configuration Post Press

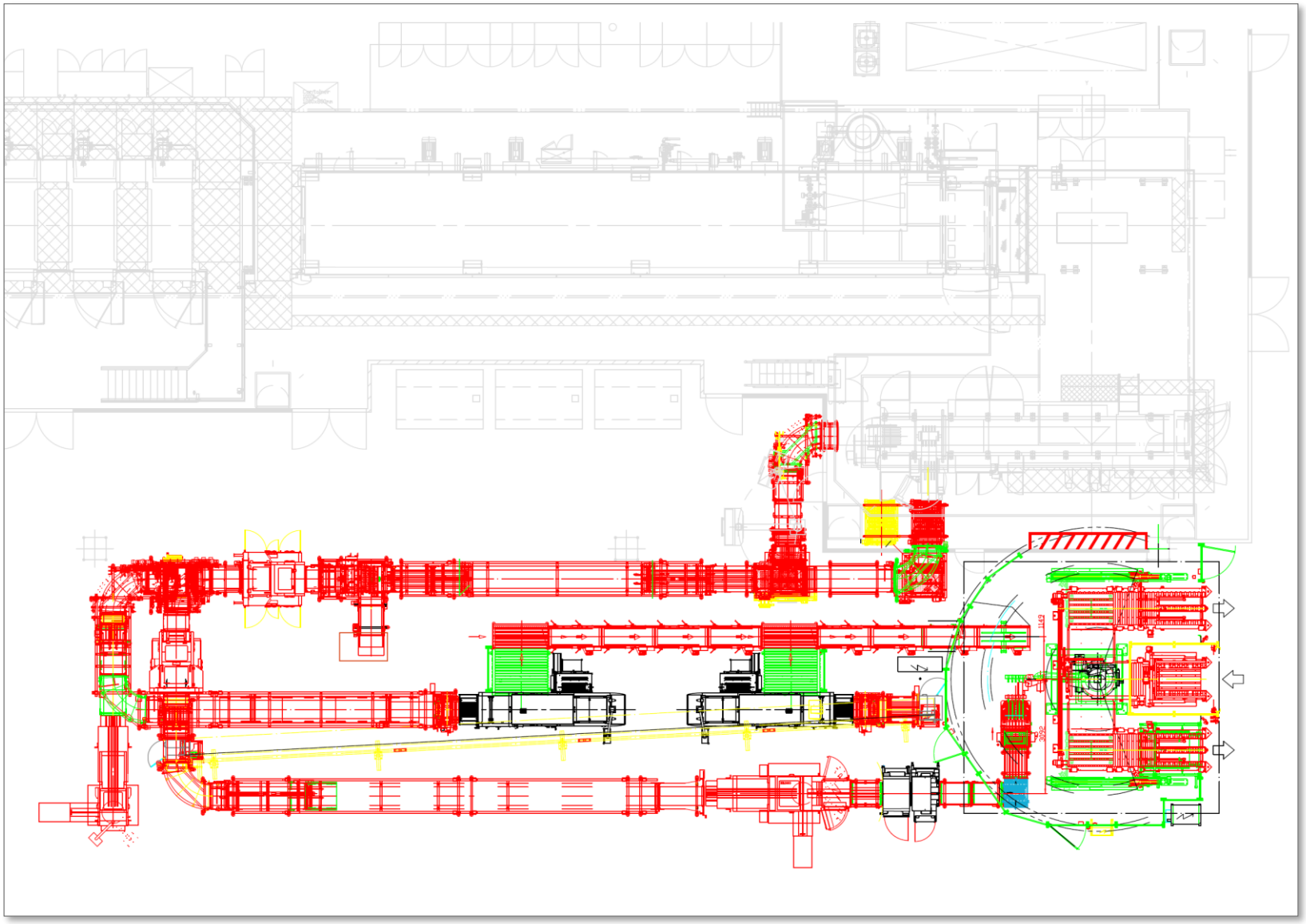
Complete system, fully automated including:

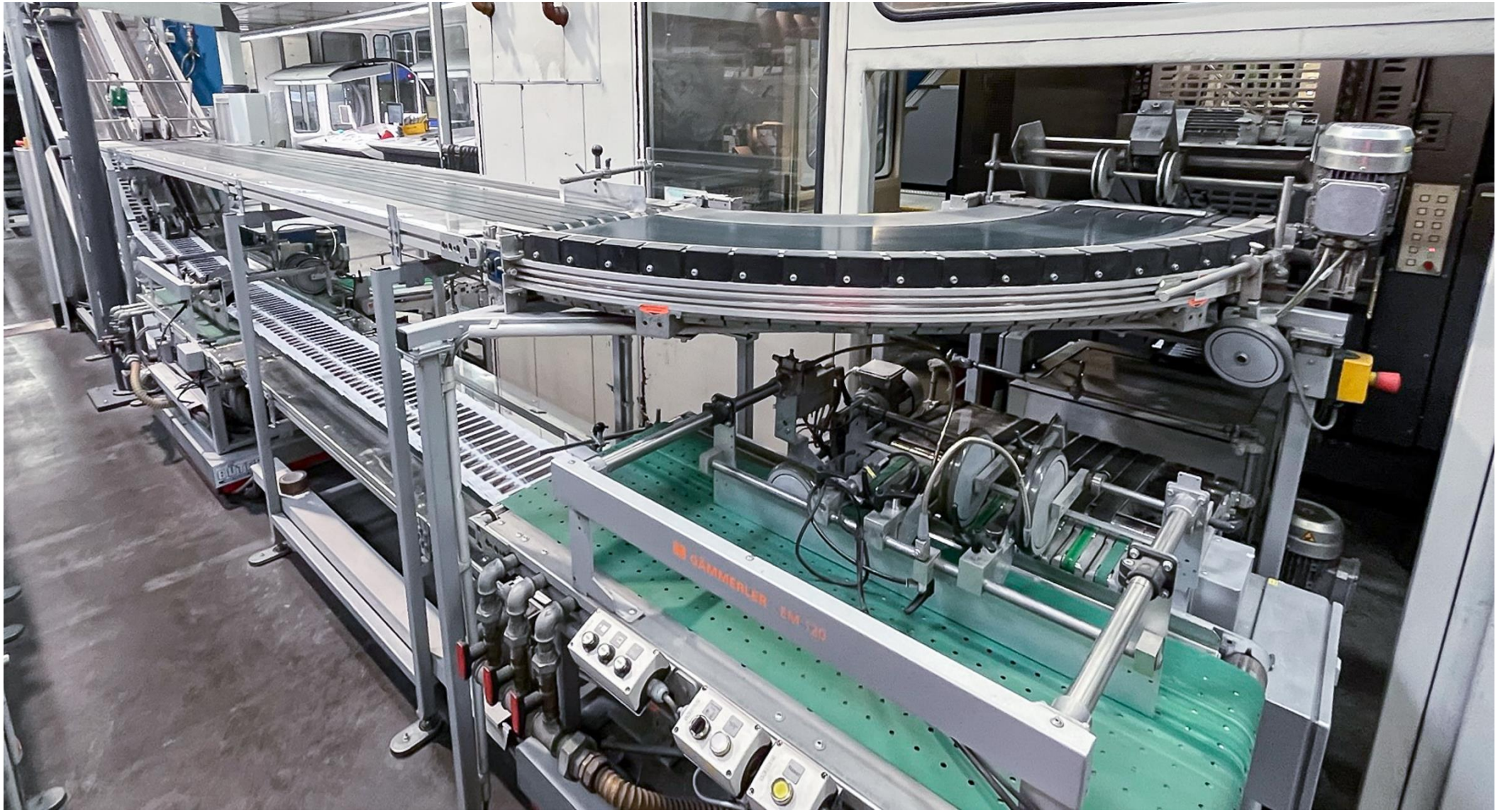
- Floor & overhead conveying
- log stacking
- lift stacking
- robotic palletizing

Special challenge

Very little floor space available along the press.
A creative layout solved the challenge.

When space becomes a major challenge:
The creative layout has it all – direct and fast access to all machines, one man operation of the two log stackers, trimming ability for one stream, integrated back-up with lift stackers and automatic palletizing of logs and stacks onto two pallets for A/B production.





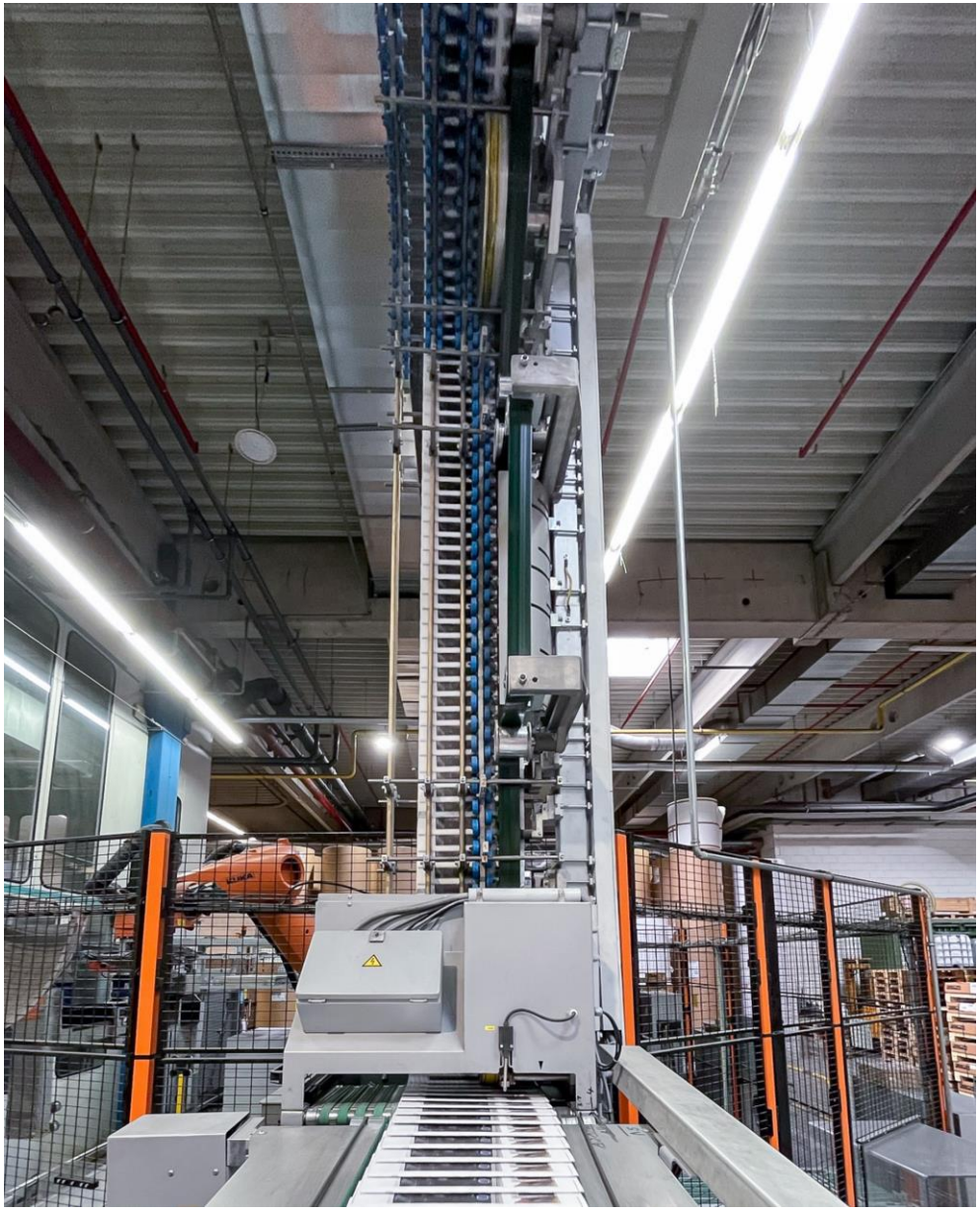
▲ The folder delivery conveyors for the two streams of magazine and tabloid products run close to the quiet room of the press, utilizing only minimum floor space.

▲ A high conveyor can be a good alternative to overhead conveying - it elevates the shingle to ~2500 mm giving a walkway

▲ On the up & down section the shingled stream is held by a driven & spring loaded top belt – safe copy travel is guaranteed.

▲ Simple, efficient and safe – a walkway underneath the high conveyor connects the press control area with the Post Press area.

▲ Put it in the air when there is no place on the floor !
Floor space is cleared by elevating the shingle transport.



▲ The first log stacker is connected with floor conveyors, the 2nd log stacker receives the shingled stream via an overhead system.

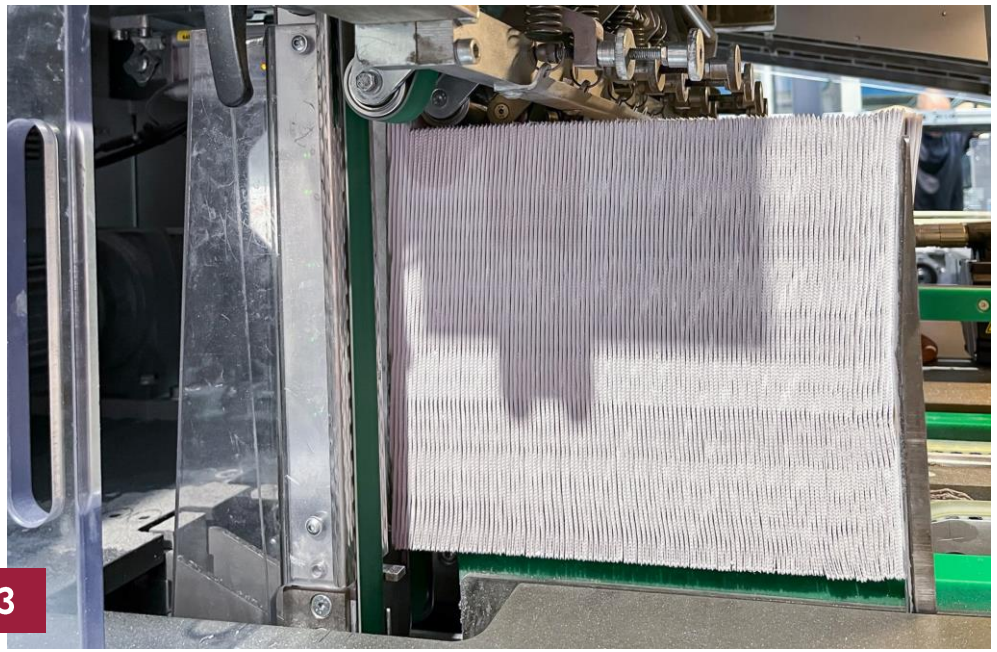
Perfect ergonomics

Side by side – this smart configuration makes the one person operation of both log stackers an easy task. Visual control, machine set-up and operation are all done by one operator and from one side.

▲ Smart & space saving: logs of both stackers share one log conveyor. Intelligent tracking software makes sure each log goes onto the correct pallet.

1

▲▼ Log building - the heart of each log stacking operation



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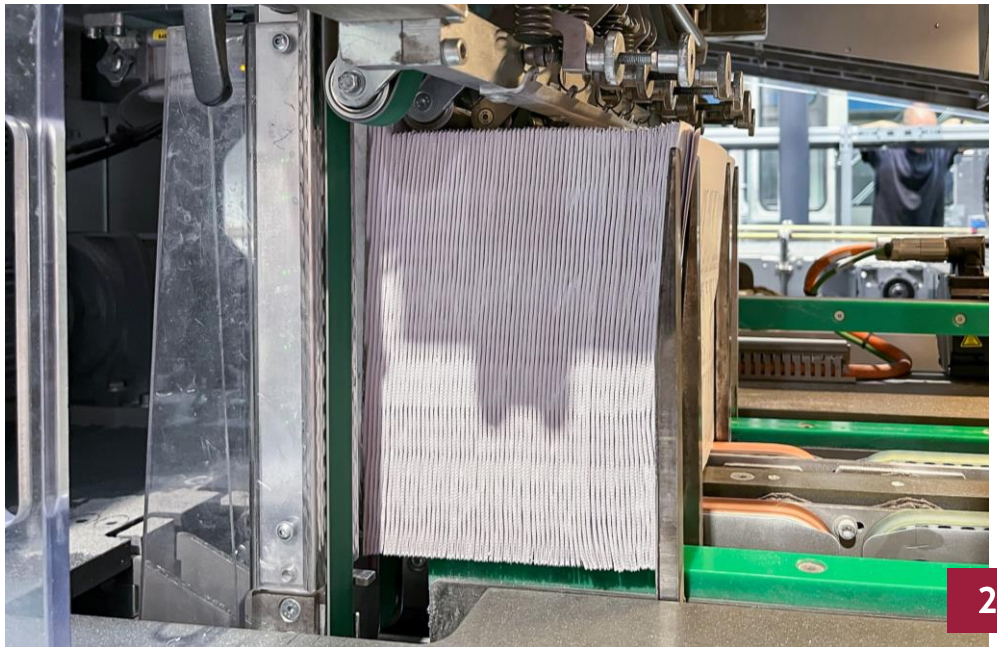
▼▲ Great logs will unlock the productivity potential in the bindery



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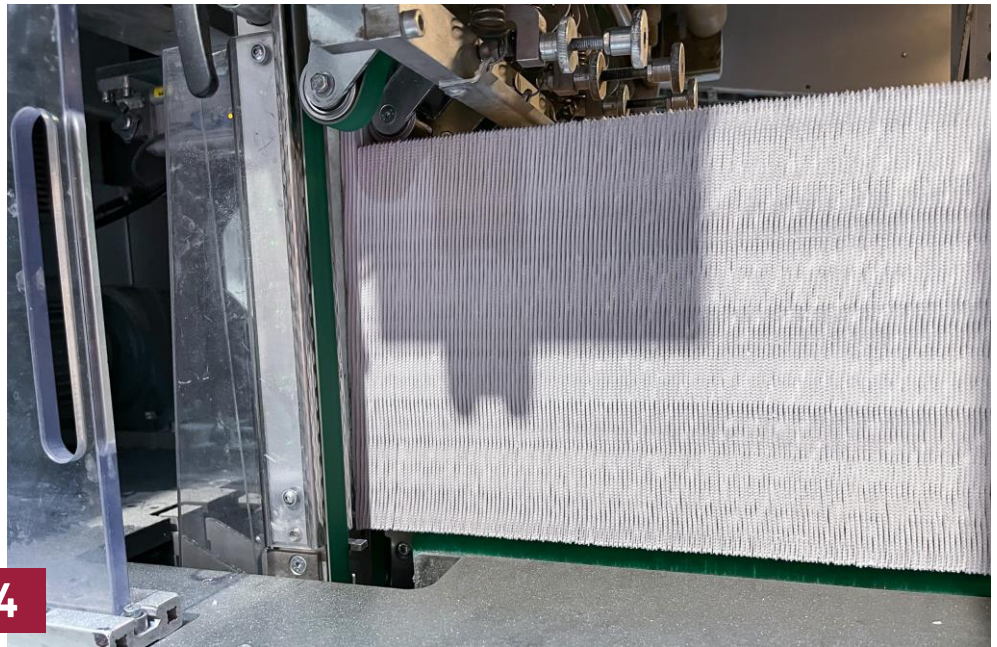

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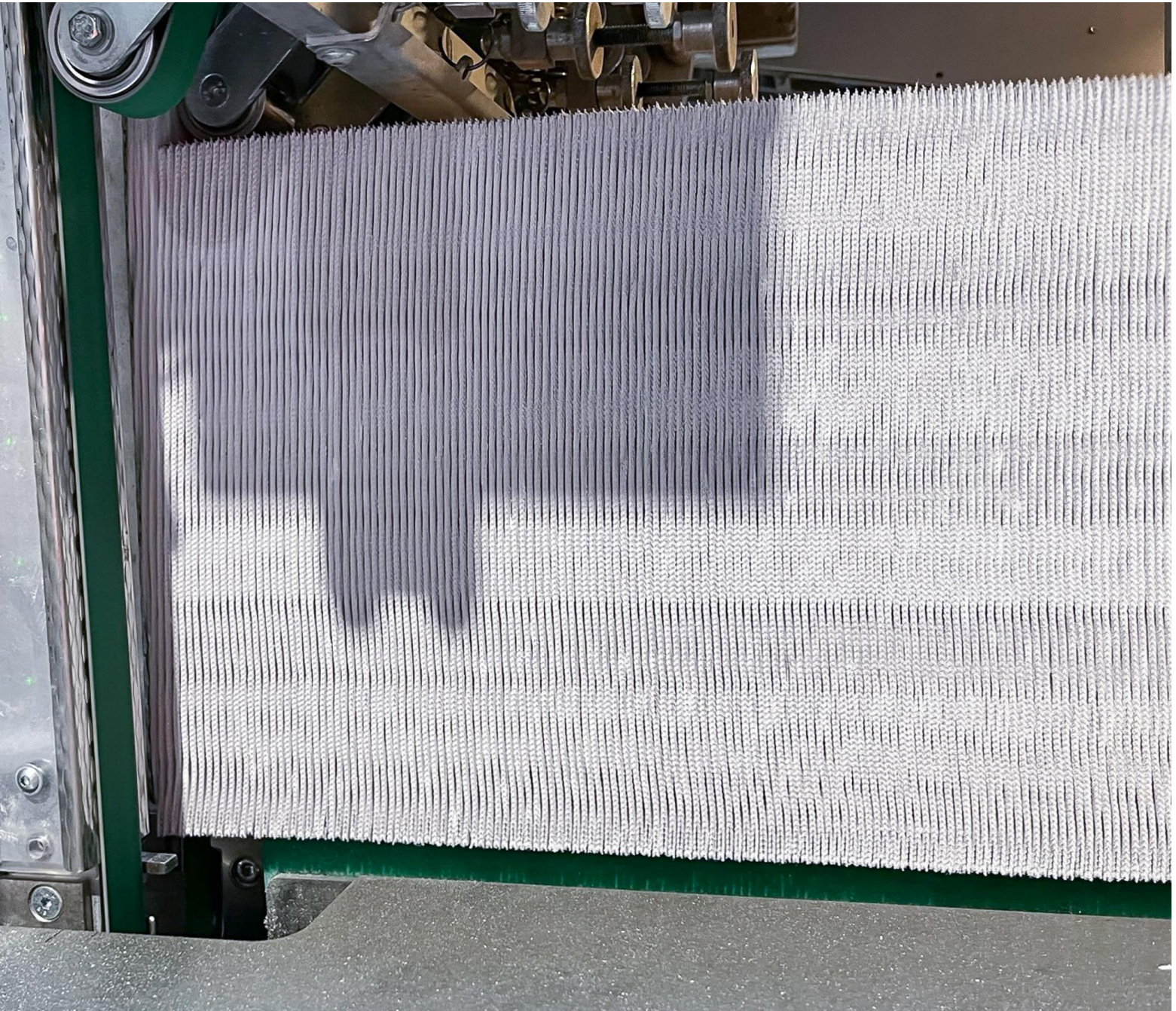
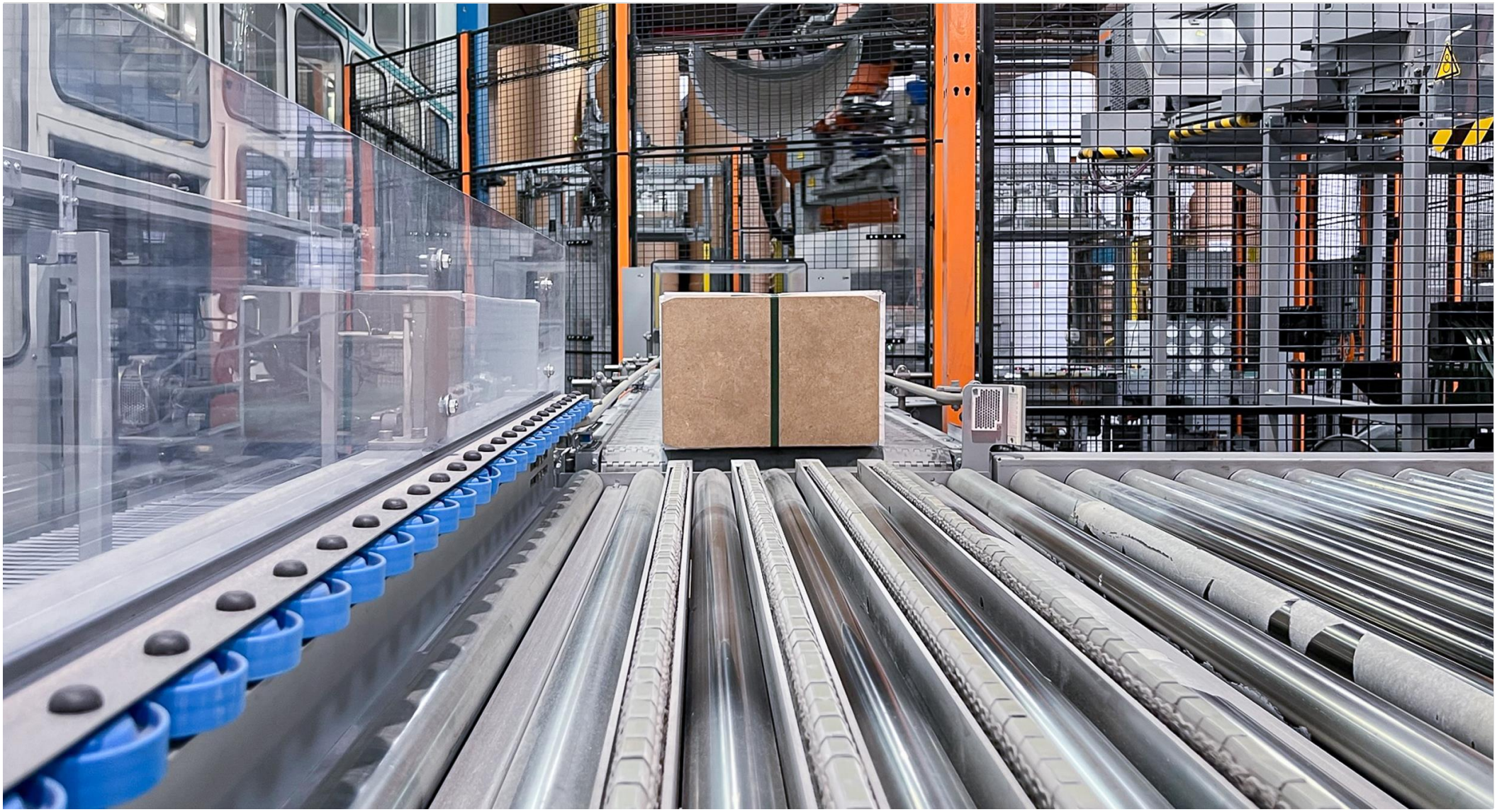
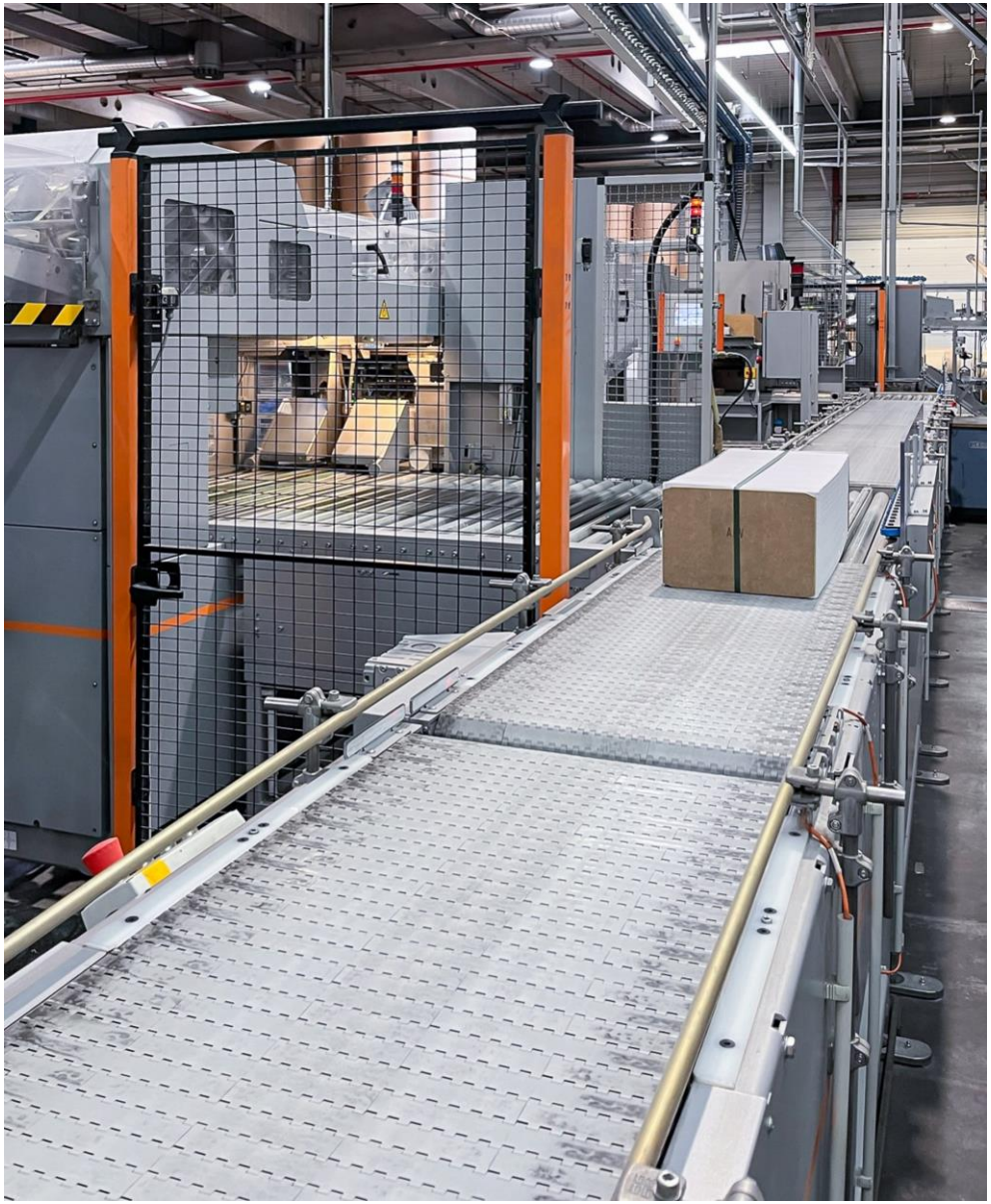


Increased bindery productivity

Consistent log quality with straight logs and no hangers reduce bindery cost. Bindery lines run faster, have less stoppages and waste levels are reduced.



▲ One log conveyor brings the logs from both log stackers to the robotic palletizer where they are palletized either onto two pallets (A/B production) or onto one pallet (A/A production). An intelligent software tracks each log through the system.



▲ Safe and space saving travel – all logs share one log conveyor built of different segments.

▲ The log conveyor is configured with several accumulation sections working as a buffer between log stacker and robot.

▲▼ Once in the pick-up position, the log is centered to guarantee the perfect position in the log gripper.

▲ Perfectly held – the logs are picked up and moved safely from the pick-up station to their final position.

The great log quality and the smooth and precise palletizing result in perfect pallets – best for WIP going to the bindery.

▲ Separate processes when speed is essential ! The slip sheet gripper is not integrated onto the log gripper so that slip sheet placing will not affect palletizing speed – means more logs/hour!

▲ The slip sheets can be placed on each layer. A dedicated slip sheet gripper separates this process from the palletizing.

▲ For all products going to the bindery – how to best store the WIP (work in process) ? The answer is good quality logs !

▲ A pallet of perfect logs protects the products, makes sure copies are flat & equally compressed and allows for easy storage.

▲ The work in process bundled in high quality logs – minimum space requirement, great protection of the copies and the guarantee for a trouble-free processing in the bindery with consistent and equally flat copies.

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