

# Robot upgrade for 96p press



retail production, two streams  
up to @ 45.000 rph  
fully automated  
NEW ROBOTIC PALLETIZING

## Project Specs

### Press

Lithoman 96p, PCF-folder & cutter-folder  
Up to 45.000 rph / 90.000 cph

### Main production(s)

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

### Configuration Post Press

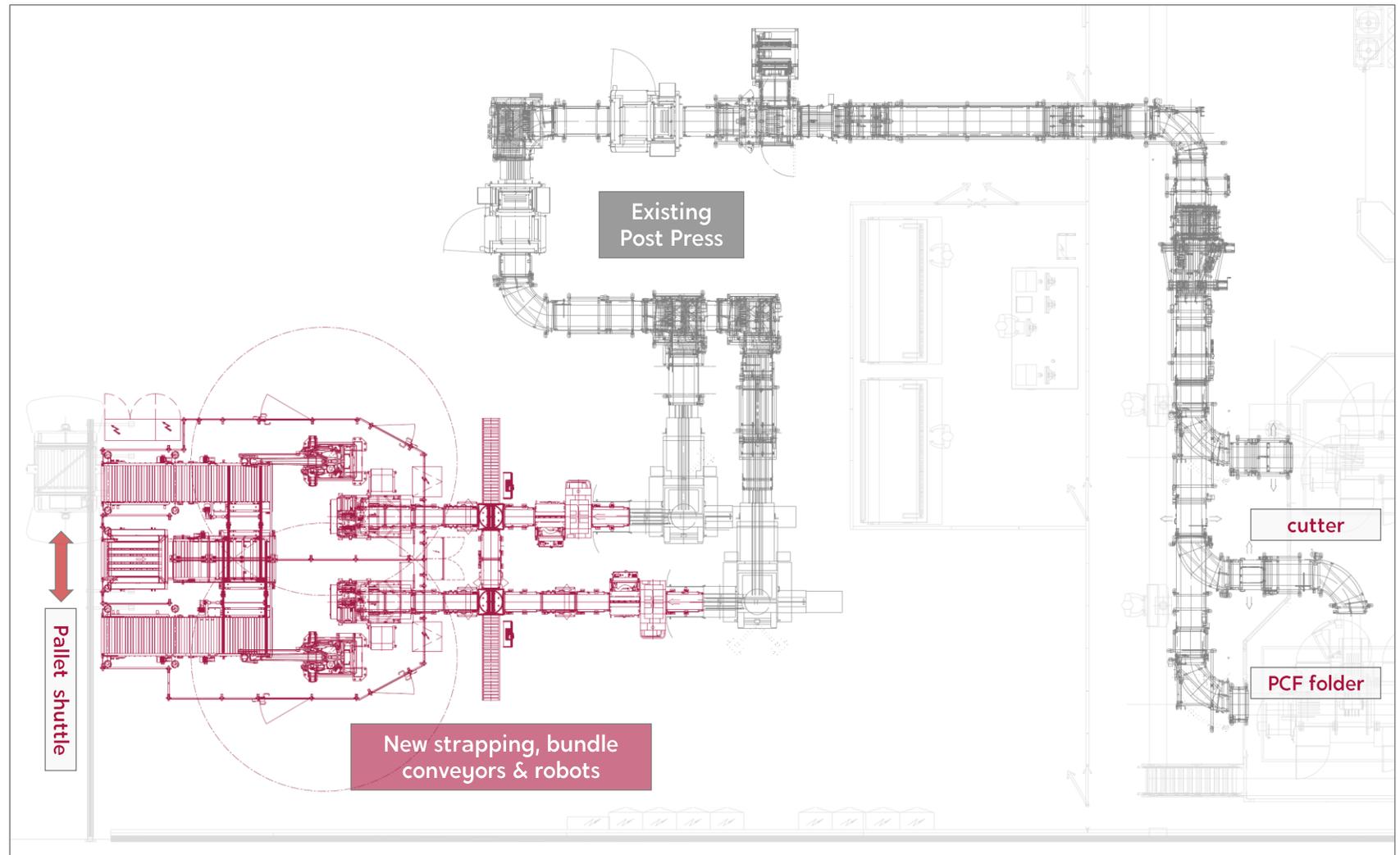
Existing Gämmerler post press with conveying, trimming, lift stacking and blocking.

Exchange of the existing palletizing with:

- ▶ two new in-line cross-strapping lines
- ▶ new bundle conveyors, incl. a "line equalizer"
- ▶ robotic palletizing with two robot arms



► Upgrade of robotic palletizing behind 96p retail press with new strapping lines, intelligent bundle conveyors and two robot arms with double-grippers.





- ◀ Existing conveying / trimming / stacking line with:
  - Folder delivery conveyors for six deliveries
  - Central waste ejection, stream aligner and squeeze roller for two lines
  - Double stream trimming line
  - Flow turn / bump turn combination on two levels
  - KL 560 lift stackers with closed coupled blocking unit



◀ Underpass for operators  
All deliveries (PCF and PFF) are merged into two streams for further processing.

Once merged, the two streams enter the postpress area. For best access, the upper line is configured as a high-level conveyor and the lower line runs below floor level. This is an easy way to free up floor space, give the operator easy access to the line, and avoid building an overhead conveyor system.



ALL NEW:

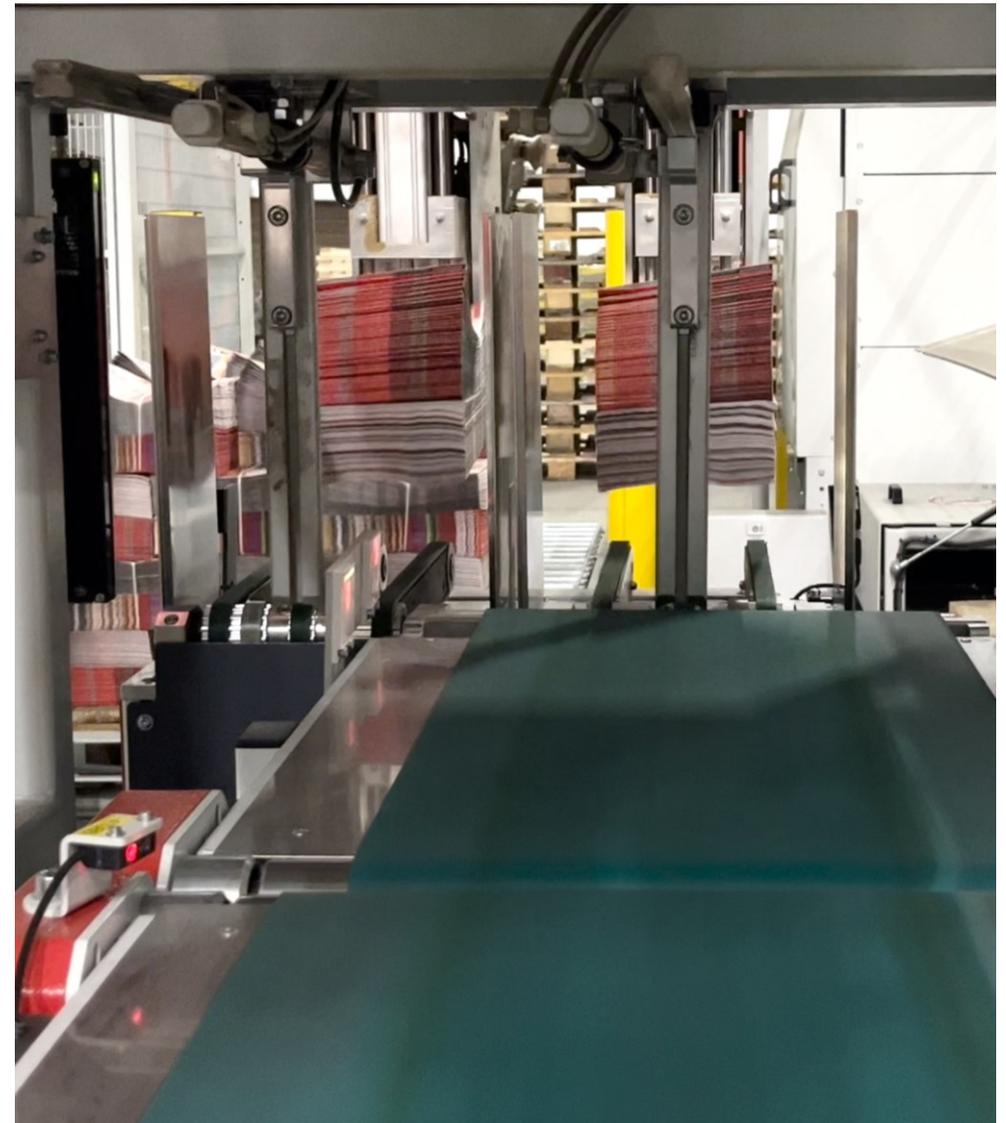
Two cross-strapping lines,  
bundle conveyors, "line  
equalizer" and robotic  
palletizing for the handling of  
strapped or loose bundles  
- up to 1.800 bundles per hour.



▲ "LINE EQUALIZER" - A link between the two bundle lines can equalize the workload for both robots by diverting bundles from line #1 to line #2 (and vice versa). It can also reduce the number of "broken pallets" at the end of a run by diverting all bundles to a final "last pallet".



▲ Accumulation conveyors move the bundles to the pick-up station.

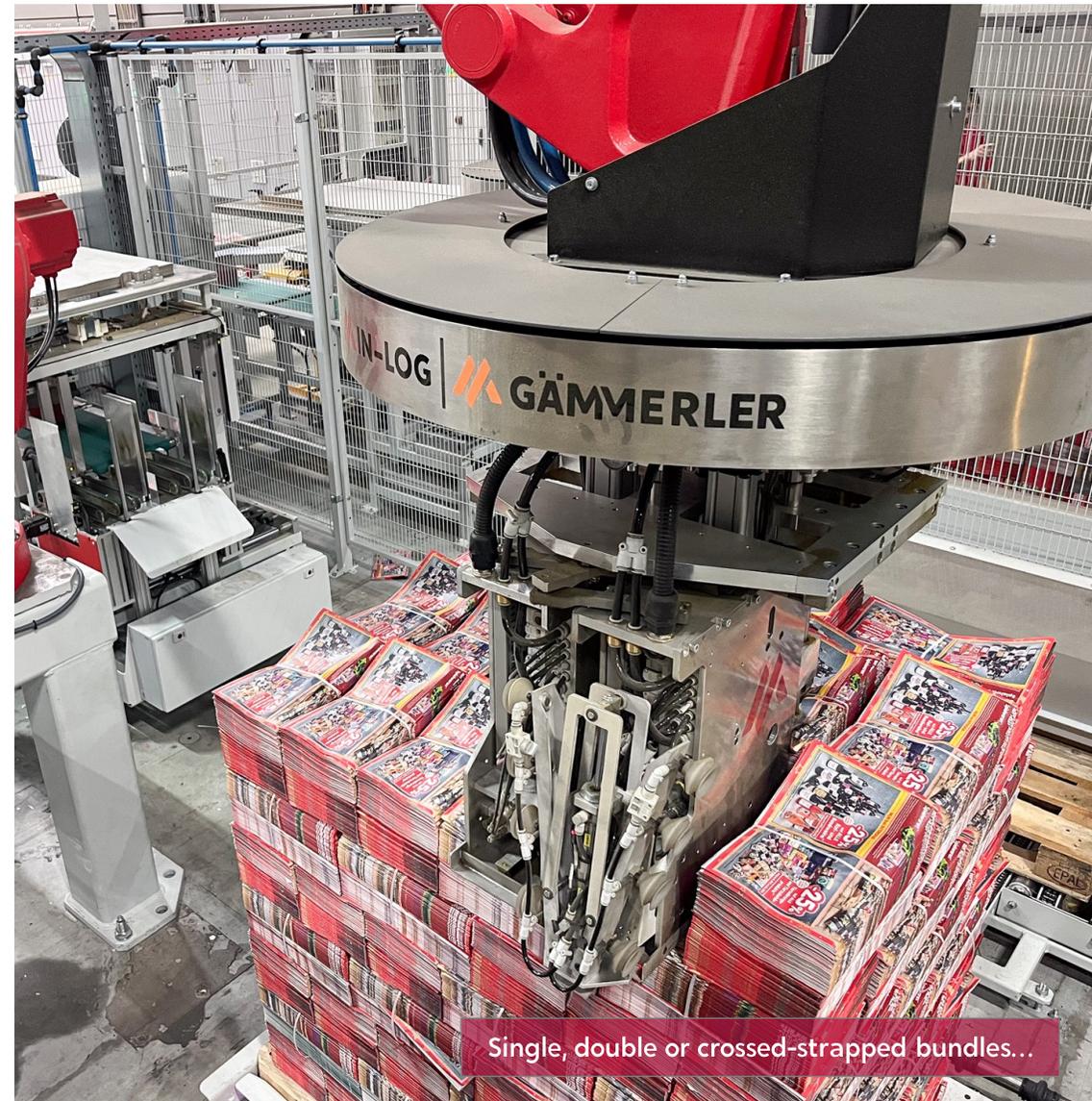


▲ After being realigned, the gripper picks-up the bundles.



Single, double or crossed-strapped bundles...

▲ The gripper moves in front of the pick-up station and the bundles are realigned on all sides before they are placed onto the pallet.



Single, double or crossed-strapped bundles...

▲ Having absolute square bundles allows a nearly gapless palletizing (pallets are more stable) & improves the presentation of the pallet.

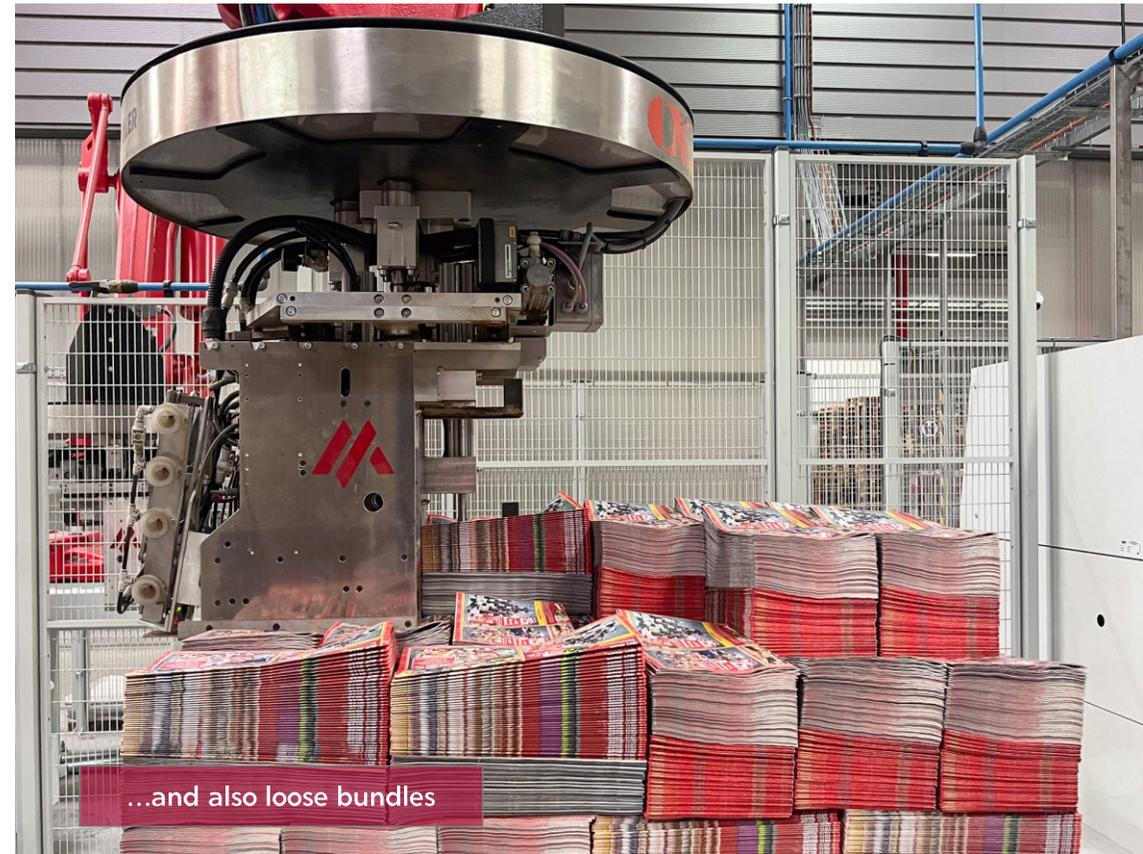


...and also loose bundles



One of the great advantages of the robot is its ability to accurately and reliably palletize loose bundles, which are held securely at all times, first in the pick-up station and then by the gripper.

This feature distinguishes the robot from a traditional layer or row palletizer.

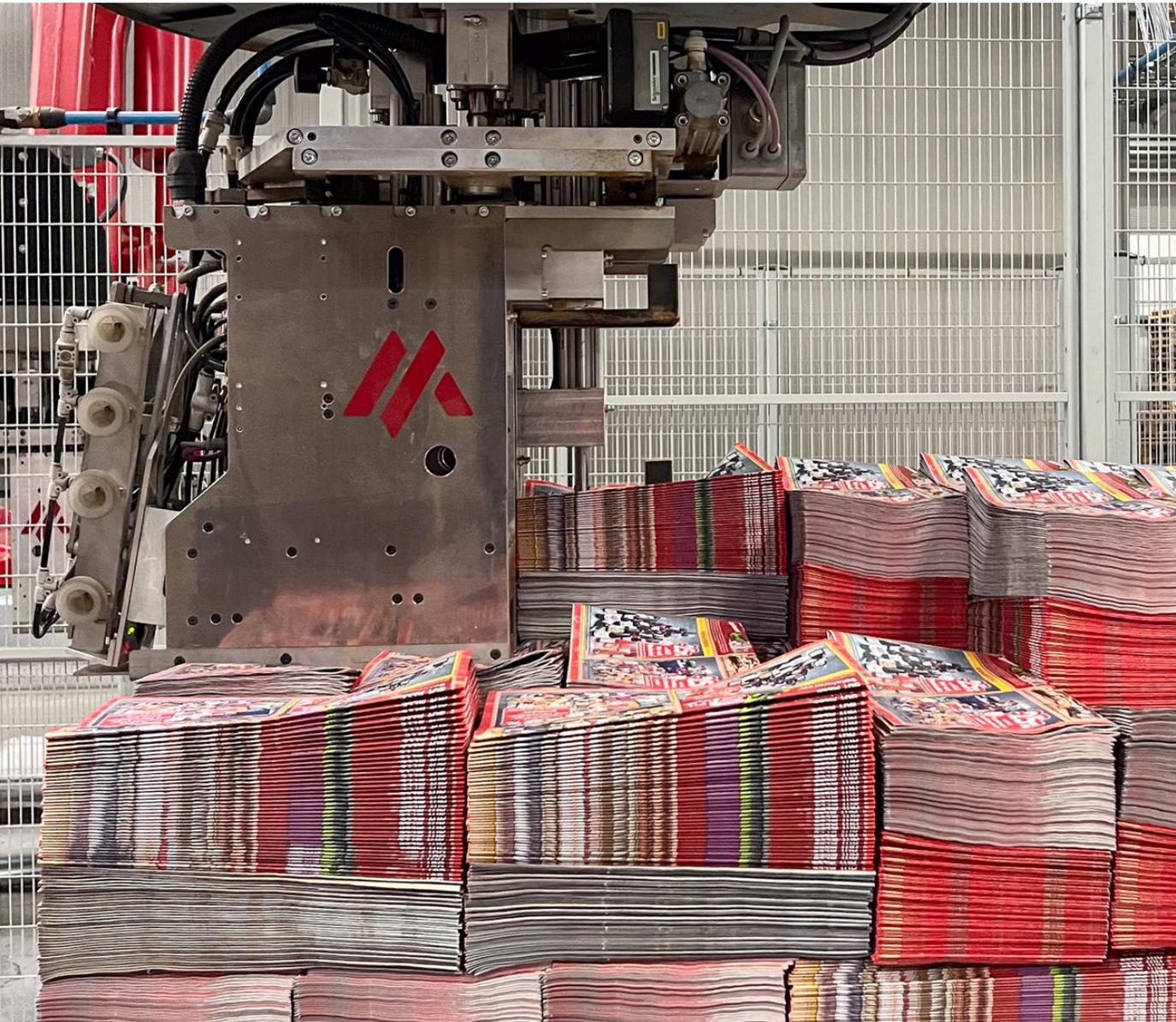


...and also loose bundles



◀ Optimized palletizing for better performance  
Not all palletizing patterns allow two bundles to be placed side by side. Instead of picking up and placing one bundle at a time, the robot picks up two bundles, places the first bundle without releasing the second, moves to the position of the second bundle, rotates the gripper if necessary, and finally releases the bundle in its final position.





▲ Square bundles of the highest quality are the key to nearly gapless palletizing, which is best achieved with robots. Bundles placed neatly side by side result in pallets of unique stability (making transportation safer and easier) and pallets of great presentation quality.



▲ Two precise, reliable and tireless helpers that turn manual palletizing into an automated process, shift after shift.



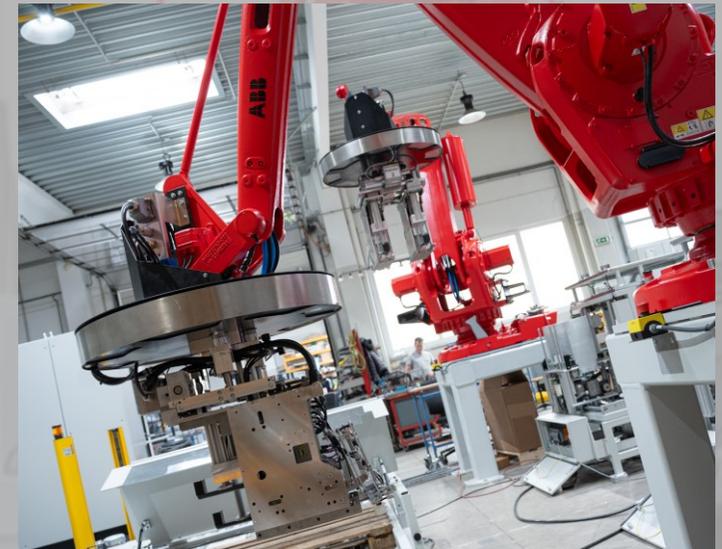
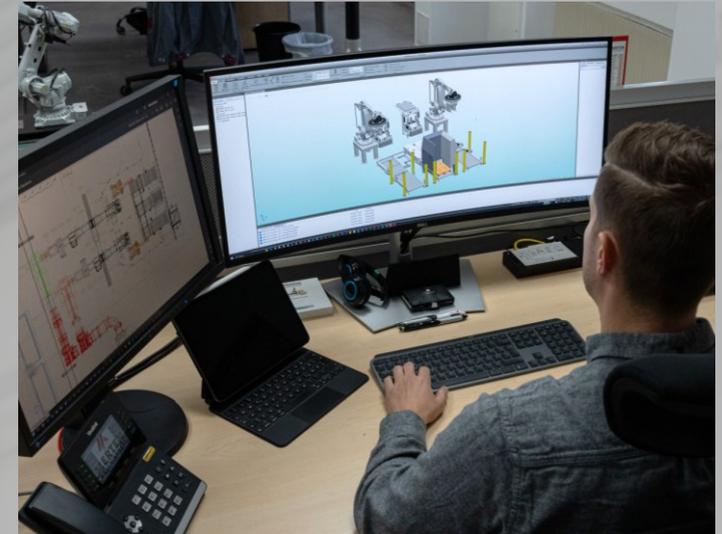
▲ Two separate lines - both robots operate independently. Stopping one robot does not affect the other line, which remains fully operational.

► Pallet Shuttle

To further automate the pallet handling process a pallet shuttle picks up the full pallets and delivers them to a pallet film wrapper.



For a smooth start-up – in-house installation, test & pre-acceptance!



▲ Our robot installations are all installed and fully tested in our factory – for a fast re-install and a smooth start-up on-site.

# The future in Postpress...?

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