

Project description

Web Press

48-page web press, 42.000 cph

Product Mix

Signatures with 12 - 48 pages in A4 and A3 format

Post Press Configuration

A deviation system merges the four product streams of the A3 and A4 folder deliveries into two production lines. A heavy duty conveying system including spiral conveyors transport the shingled streams to the pick up stations of the overhead conveyers at high speeds and limited space. Due to the twist of the shingled stream of up to 180° during up- and down transportation, the shingled stream is negatively transported on the horizontal conveying distance. Therefore the shingled stream is not affected by any stronger air movements and the risk of whirl-ups and shifting can be avoided. Afterwards the copy streams are delivered from the two overhead conveying systems to the RS 840 double stream trimmers for the 3 side trimming. The trimmed streams are transported via two RS 230 combination towers to the two high speed compensating stackers. The well compensated stacks are conditioned by the application of electrostatic charges of the RS 100 blocking units. According to the applicable demands, the stacks pass the strapping units or they are single or cross strapped. Accumulating infeed conveyors transport the loose or strapped stacks of the two lines to the two pick-up stations of the palletizing robot, where they are being realigned. Equipped with „smooth approach technology“, the RS 400 multi format palletizing robot precisely places A4 stacks (double gripper) and A3 stacks (multi gripper) onto two pallets at speeds up to 800 stacks per hour. The slip-sheets are placed automatically. The pallet interchange is fully automatic. The full pallets are ejected to a pick-up area and empty pallets are fed from a waiting area.



Responsible Project Center

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POST PRESS

MAIL ROOM

BUCHBINDEREI

Project Bachem, Germany



RIMA SYSTEM



Automated Post Press solution for a one man operation: conveying system with overhead- and floor conveyors, RS 840 double stream trimming line, two RS 31SL stackers with close coupled blocking unit and strapping unit and RS 400 high speed palletizing robot with double and multi gripper.

The floor conveying systems transport the shingled stream from the four press deliveries to the pick-up stations of the overhead conveyor system.



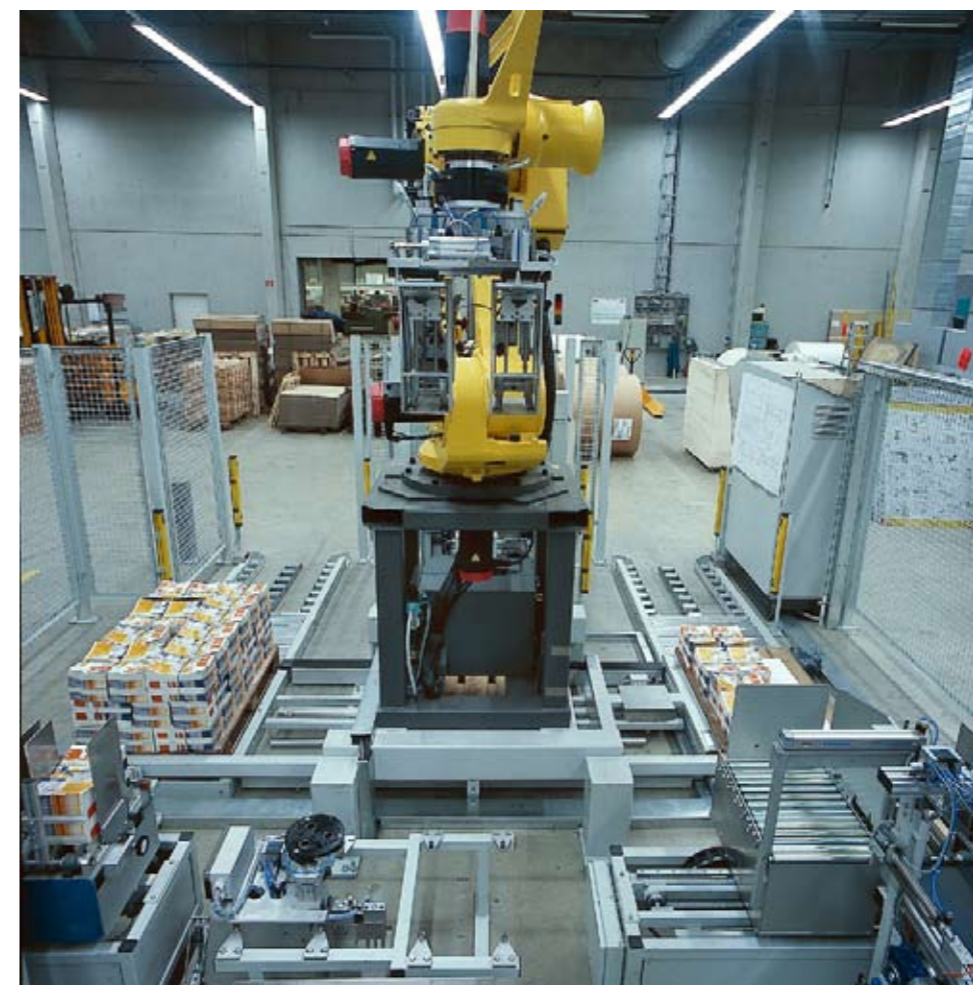
The overhead conveyors transport the shingled streams to the RS 840 double stream trimmers. The RS 300 overhead conveyors guarantee the operator fast and easy access to the deliveries and to the complete Post Press System.



The innovative RIMA-SYSTEM double stream trimmers represent a space saving and easy accessible solution for three side trimming of two shingled streams. The two trimming modules operate separately and can be run together or individually. All format adjustments are electrically controlled by the commander of the RS 840.



After the three side trimming, each shingled stream is delivered to a RS 31SL high speed stacker. The closed coupled blocking unit stabilizes the stacks by applying electrostatic charges. The stacks can optionally be single or cross strapped. Loose stacks run through the in-line strapping line.



The RS 400 multi format palletizing robot processes the loose or strapped stacks of A4 (double gripper) and A3 (multi gripper) format from the two stacking lines onto the two pallets. The grippers can be automatically exchanged within 60 seconds by means of the gripper exchange station. Together with the empty pallet dispenser, and the slip sheet feeder the palletizing robot turns into a completely automated palletizing cell.