

Project description

Application

Stacking and palletizing behind a perfect binder line with 15.000 cph

Product Mix

Perfect bound products in A4-format

Post Press Configuration

Behind the three-side trimmer the RS 33S bookbindery stacker converts the perfect bound products into precisely aligned and compensated bundles. Particularly, the „table-up option“ increases the stack quality by minimizing the drop height between the upper bin and the turntable. Before dropping the layer the turntable automatically rises, thus eliminating the bounce that occurs when heavy products drop onto a fixed turntable.

The high-speed servo pusher ejects the compensated stacks into the direct-coupled blocking unit, where they are stabilized for further transport and palletizing through mechanical compression and an electrical charge. In case of stoppages within the downstream equipment, the stacker automatically changes delivery direction to the emergency delivery until the problem is solved. Behind the blocking unit a rail system is installed allowing easy movement of either a bundle conveyor or a film wrapping line including a shrink tunnel. Depending on production either the bundle conveyor or the wrapping line are placed in the line and fixed to the ground by quick releases. This design minimizes the changeover times and enables quick and simple change between production of wrapped and loose bundles. The stack conveyor, as well as the film wrapping line, transports the stacks to the accumulating conveyors and pick-up station of the robot. The double A4 gripper receives the loose or film wrapped stacks from the pick-up station and places them smoothly onto pallets at speeds up to 900 stacks per hour.

To ensure continuous workflow the RS 400 robot is equipped with two palletizing positions. After completing the pallet in position one, the robot continues to palletize in the second position. Meanwhile the full pallet from position one is automatically ejected and exchanged by an empty pallet. This configuration of alternative palletizing, from one line onto two pallets, allows palletizing without interruption even during pallet exchange.

Responsible Project Center

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POST PRESS

MAIL ROOM

BOOKBINDERY

Project Konradin-Druck, Germany



RIMA SYSTEM



▲ View of the post press area behind the perfect binder line: RIMA-SYSTEM RS 33S bookbindery stacker with closed coupled blocking unit, bundle conveyor line or film wrapping machine and the RS 400 high speed palletizing robot.



▲ The RS 400 high speed palletizing robot equipped with double gripper and "Smooth Approach Technology" provides careful and accurate palletizing of more than 900 stacks per hour from one line onto two pallets.



▲ The RS 33S bookbindery stacker especially designed for thick products receives the perfect bound and trimmed products (up to 80 mm product height). Equipped with the „table-up option“ which reduces the drop height between the upper bin and lower turntable basket the RS 33S produces perfectly aligned stacks.



▲ The high speed pusher system of the RS 33S delivers the stack within the shortest cycle times to the close coupled blocking unit where the stack is stabilized through mechanical compression and an electrical charge for safe transport and palletizing.



▲ The simple rail system between blocking unit and robot enables the quick change of the different productions types. Depending on production either the bundle conveyor or the film wrapping machine is set onto the line.