



Schur Mailroom Solutions

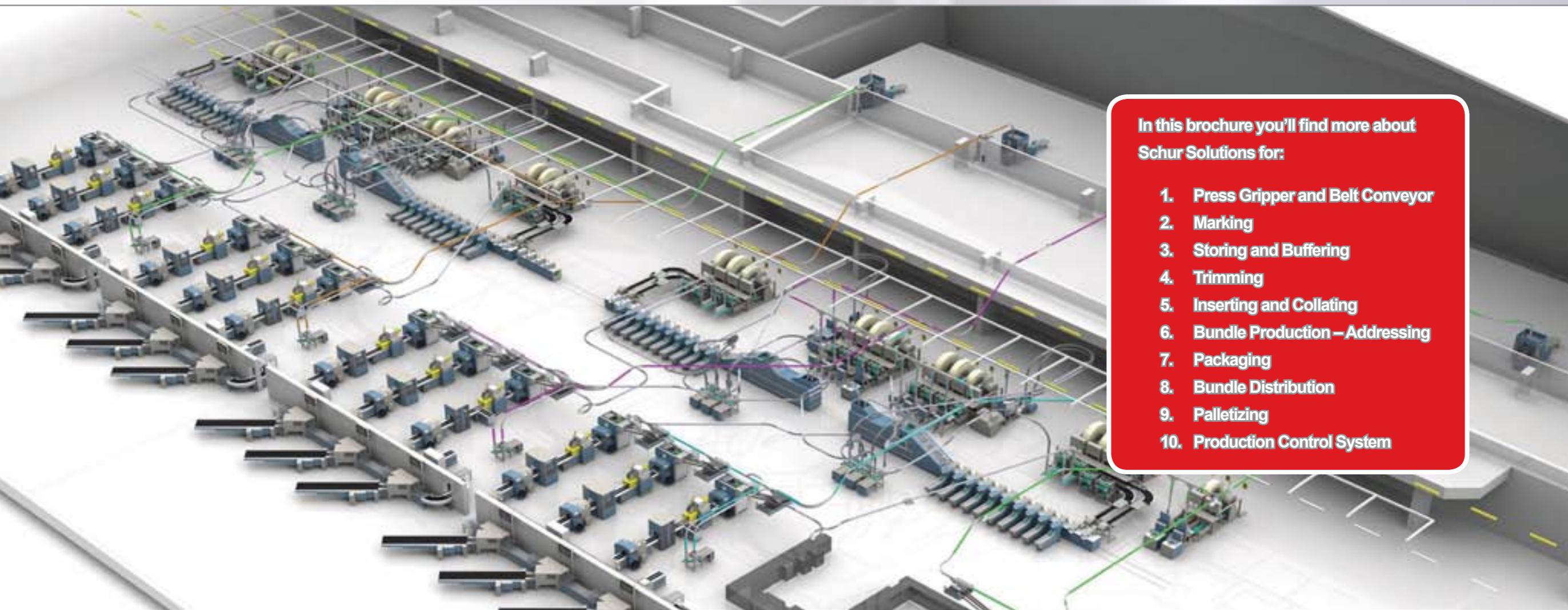
From Folder to Loading Bay

Modular and Tailor Made Mailroom Solutions for Modern Printing Industries

Schur Packaging Systems is a leading supplier of Post Press equipment & Systems to the printing industry. We have many years' experience of working in close cooperation with small, medium-sized and major circulation newspapers all over the world. Over time we have built up a wide range of in-depth knowledge of mailrooms, distribution and palletizing.

At Schur Packaging Systems we offer a complete range of systems and equipment covering all mailroom functions, from folder to loading bay. Our solutions are characterized by a high degree of automation, great flexibility and their sensitive handling of printed products. These are qualities that make your production more efficient. Our customer's individual needs and demands of today and those they anticipate tomorrow are what govern their choice of equipment. Post Press Systems from Schur Packaging Systems are easy to expand and modify in order to meet changing requirements in the future.

Our products feature modular design, which means that they can be used on a stand-alone basis or as integral parts of a complete system. Thanks to computer based software, all functions can be integrated with one another. This brochure describes a selection of the products and systems Schur can offer when it comes to proven post press production equipment and presents the various facets of our core business.



In this brochure you'll find more about
Schur Solutions for:

1. Press Gripper and Belt Conveyor
2. Marking
3. Storing and Buffering
4. Trimming
5. Inserting and Collating
6. Bundle Production – Addressing
7. Packaging
8. Bundle Distribution
9. Palletizing
10. Production Control System

Press Conveyor Systems



Press Gripper Conveyor System

The gripper conveyor picks up the newspaper copy stream at the folder and ensures safe transport to further processing in the mailroom. The gripper conveyor can run production in 1:1 or 2:1 mode, independent of press speed. This gives a digital handling and full control of every single copy. Any number of copies can at any time be directed and released to pre designated drop points; check and waste copies, copies for inserting, storage and for bundle production.

Programmed production can be achieved even down to one copy in a bundle.



The transport and release is highly reliable and free from interruptions. The contact area between the gripper and the copy is held to a minimum and the connecting points are widely spread apart to secure ensure gentle handling and reduce the risk for smudging to a minimum.

Due to its patented design in the way the gripper is opened and hinged, the gripper is one of the best currently available on the market. The gripper system is made up of profiles which are bolted together, making alterations and maintenance to the system much easier.

Press Belt Conveyor System

The newspaper copy stream is transported by means of belt conveyors, in straight, curved and vertical directions. The Press Belt Conveyor System also includes stream aligners in for different product types and press speeds, waste dump gates, product squeeze units etc. All sections are controlled by Schur's Belt Conveyor Control System that track reel changes, splices to the waste dump gate, automatically adjusts the speed to match the press speed, etc. The individual components are well built for a long life time in service.

Marking

Inkjet System

The inkjet system operates via direct interface with either a nova mailroom control system or a computerized list of subscribers. Schur's patented coded gripper tracking system keeps control of the copy stream and addressing takes place while newspapers are being held in the gripper. Addressing can be done independent of intended packaging line and addressed printed matter is produced in accordance with distribution data. The inkjet printer consistently produces clearly legible addresses. The inkjet system can be incorporated into Schur press gripper conveyors, Schur inserter gripper conveyors, press belt conveyor systems as well as any type of third part gripper conveyor system.



Sticker Applicator

The sticker applicator system is designed for labeling of media in the newspaper and commercial printing industry. Connected to a single copy gripper conveyor, the sticker applicator applies labels exactly positioned on the product. The unit is equipped with wheels and can be moved freely. This allows flexible use in the production line. On zoning, the applicator can be controlled to operate as a feeder, producing according to a manifest file.

Storing – Buffering

Process Optimization

The storage and buffer system has been developed in order to respond to generally changing production philosophies with shorter press runs, smaller editions and a generally increasing product flow of for example inserts.



The system is based on winding technology and has been developed with flexibility and reliability in mind. The flexibility can be found in the modular construction of the system that offers many possible configurations and assures the adaptation of the system to future requirements.

Flexibility is also the key word when it comes to production modes – the system can be used as a dynamic buffer system, from which the production can be directed to inserting, trimming or stacker processing.

Furthermore it can be used as an overflow system, when the press is running directly to inserter or stacker lines.



Trimming

Three-Side Trimming Solution

Our trimmer solution consists of two trimming units and an integrated bump turn. The trimmer is controlled and driven by one control cabinet only and make millions of precision cuts daily.



As standard, the trimmer is equipped with tempered and air cooled hard metal knives, ensuring superior trimming quality. Thanks to quick knife exchange and inexpensive re-sharpening of the knives, investment costs will be reduced.

An integrated protection system minimizes damage to the knife-heads. As an option, the trimmer can also be offered with segmented knives which permit individual changes to each segment. The modular design of the trimmer provides easy access for service and maintenance.



Inserting Systems

Schur offers different inserting solutions, suitable for small, medium and large printing houses. Our inserting systems meet any individual production requirements and ensure safe and efficient production with minimum waste. Designed with an integral gripper conveyor, where each gripper is the bottom part of the pocket and hoppers are located immediately above the pockets, the following advantages are given:

- Zoning possibilities down to one copy
- Back-up functionality
- Repair functionality

A number of hoppers can feed the same supplement. This makes it possible to feed high pagination supplements manually while maintaining the high production speed. The hoppers can be fed automatically from all types of storage systems that are available in the market, or manually via hopper loaders.

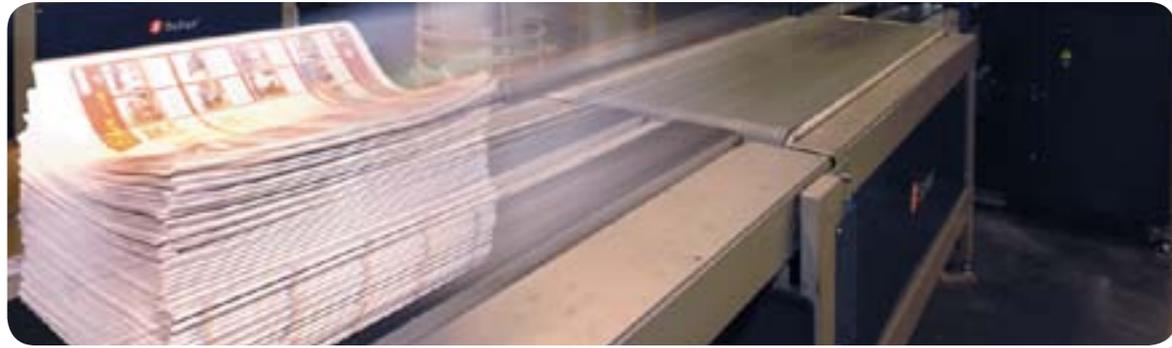


Direct Mail Handling

The Schur collating solutions offer high performance when it comes to intelligent handling of direct mail and house-to-house distribution of commercial print. The Schur collator is based on our proven inserting technology. With up to 60 feeders in one distribution line, the highest efficiency is guaranteed.

In addition to the traditional collating process, the Schur collator is also able to handle paper wrapped collating and addressing.

Bundle Production – Addressing – Packaging



Bundle Production

Schur offers a variety of stackers for differing production conditions and requirements. Our product portfolio ranges from ruggedly reliable stackers that produce standard bundles up to advanced network-controlled stackers with cycle times of down to a second. What all of them have in common is their speed, operational reliability and bundle quality. Our unique intercept feature enables very fast and reliable division of the copy stream and ensures correct spacing between copies. Schur stackers produce efficiently programmed bundles of down to one single copy, without the need for manual intervention. The integrated bundle press squeezes the air out of the stacked copies. This guarantees compact and stable bundle quality.

Bundle Addressing

The Bundle Labeling System consists of a printer and an applicator unit. The system operates, using a paper roll (up to 2000 meter paper) that is cut into custom specific lengths by the printer. The Printer and applicator unit communicate with the post press control system, to receive correct print data. The control system tracks the bundles from the stacker to the application position.

Plastic Wrapping

The best way to protect newspaper bundles against moisture, dirt, and mechanical damages is wrapping them in plastic. The Schur plastic wrapper handles bundles from one copy up to the stacker's maximum bundle height. The wrapped bundle can either be strapped directly in the strapper or it can be transported to a side welding unit. Bundle labels with text and bar code that are wrapped in plastic are both mechanically and manually fully legible.

Under Wrapping

The under paper wrapper precedes the strapping machine by fitting the bundles with protective paper—either as bottom wraps or three quarter wraps. This will make the bottom copy of the bundle protected from dirt, moisture and damage.

Strapping

Schur offers a range of reliable strapping machines and strapping lines that run with minimum interruptions. Our product range includes machines for single, parallel and cross strapping. The high capacity strap-pers handle both small and large bundles.

Bundle Distribution

Optimal Customized Solutions

Schur can supply a wide range of high quality bundle conveyors for all system configurations. These are specially designed and adapted to ensure smooth, silent and efficient conveying of your products. Schur provides a wide range of conveyor belts, diverters, gates, curves and high speed bundle sorters that can be combined to create the optimal customized solution. Some of the special features are accumulation of individual bundles and the possibility to direct the bundles to a reversible buffer conveyor in case of production disturbance. All conveying is closely monitored and controlled by our easy-to-operate PLC and/or PC based control systems.



The Schur truck loading system handles the entire loading process automatically. It consists of transport conveyors, pushers, sorters, bar code readers, telescopic truck loader conveyors for loading the trucks and a control system. The loading system handles labelled bundles with bar codes and text information. The bar code readers read the bar codes and the control system directs the right bundle to the correct loading bay. The control system by itself can keep track of loading of each bundle, route or edition to the designated loading bay. In these cases, no bundle label is required. The control system adjusts the flow of the bundles for optimum capacity usage.

Palletizing

Process Optimization

All Schur top-quality palletizing solutions are the perfect match for your production requirements. Schur Palletizing Systems provide the unique capability of high speed handling of both tied and untied bundles. The smooth handling of all bundles allows production without bottom paper wrap.

Solutions from a single stand alone to fully automatic systems are all flexible and easy-to-operate. All configurations require little need for service and have a very long service lifespan. A Schur palletizer system can be designed with automatic pallet handling from the empty pallet stack until fully plastic wrapped and/or pallet strapped, with pallet label(s) applied for storage and shipping needs. The control system can be setup to different access levels of the control system, depending on your requirements. All Schur palletizing systems can track products through the production process, allowing unique pallet manufacturing and individual product count of each individual pallet.

The advantages of Schur Palletizer:

- reduced manual handling
- increased productivity
- minimized error rate
- ensured uniform production flow

Pallet Label Applicator

The Pallet Label Printer and Applicator Unit (PAL) is a stand-alone unit that can print a pallet label on demand and apply it onto the vertical side of a pallet. The unit is connected to the Schur control system where the correct pallet label print data is stored, and later sent to the PAL at the correct time. This ensures that the correct label is applied to the correct pallet.

Nova Control and Information System

Overall Control System for Mailroom and Distribution

Nova is our overall system for managing the operation in modern mailrooms or distribution centers. It is the ultimate tool for integrating all production components. Nova integrates the mailroom with other computer systems and gives automatic updates of production data, etc.

The individual functions in Nova can also be used on a stand-alone basis, e.g. for single addressing, storage control or bundle production.

The Windows-based system is simple to use and opens the way towards tailor-made production set-ups. Nova features a number of automated functions that offer substantial flexibility and make it a simple matter to modify the production process as required.

The program keeps track of every product in the mailroom, giving exact control over the copies to be stacked, single addressed or have supplements inserted etc. Nova also supervises bundle production and monitors other equipment all the way out to the loading bay.



Service – After Sales



Service

In order to keep your equipment in perfect working order it is essential to carry out regular maintenance and have access to skilled service personnel. Our service solutions are customized to fulfill your needs and requirements.

We can offer assistance on a case-to-case basis, 24-hour hotline support and various service agreements which include status control, regular service visits and system optimizing.

After Sales

The right spare parts at the right time and place are important elements in the strategy for maintaining efficiency and securing optimum operation. The Service and After-Sales department has an extensive and in-depth knowledge of all Schur and IDAB WAMAC equipment.

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