

## «PrimaPlus» Saddle Stitching Line

An outstanding total print  
finishing system

**MÜLLER MARTINI**



# More than an ordinary saddle stitcher

«PrimaPlus»



The new «PrimaPlus» saddle stitching system from Muller Martini is the most efficient total solution for processing of magazines, catalogs, leaflets and brochures.

«PrimaPlus» is based on the «Prima» series of saddle stitchers, which has proven itself in the market and which, thanks to increased versatility, creates even more added value for print finishing companies.

«PrimaPlus» is a flexible production line tailored to suit all print finishing needs and covers the requirements of a universal system for medium- range production: automatic gathering, stitching, trimming, inserting, film wrapping, addressing and palletizing – the entire postpress value-added chain is within reach of the «PrimaPlus».

Its highly developed design uses an up-to-date control system and allows many configurations. «PrimaPlus» fulfills all the needs placed on a system for finishing printed products:

- outstanding product quality
- high level of automation
- staffing flexibility
- very easy operation
- excellent net output
- selective binding capability (reader-specific product make-up)
- integration into CIP4 and higher level control system



# «PrimaPlus»

for even greater added value in print finishing



## Unique modularity – the building block principle for maximum flexibility

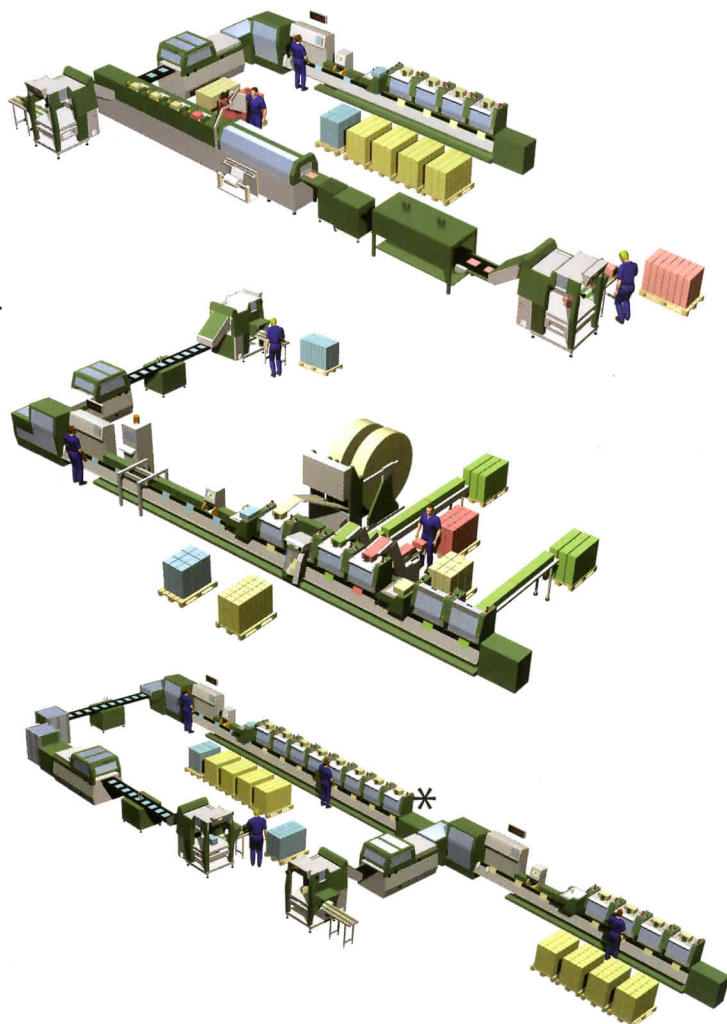
The modular design of all Muller Martini saddle stitchers has also been used for the «PrimaPlus». Thanks to its many expansion capabilities, individual customer requirements and configurations are possible to meet special production needs (e.g. by installing the three-knife trimmer in the front or rear).

## Selective binding – for added value thanks to specific reader targeting

With «PrimaPlus SB», products can be manufactured that are reader-specific and personalized. This solution also makes individual configurations and target-group oriented assembly of printed products economically attractive.

## Three for the price of two – the unique Tandem solution using «PrimaPlus»

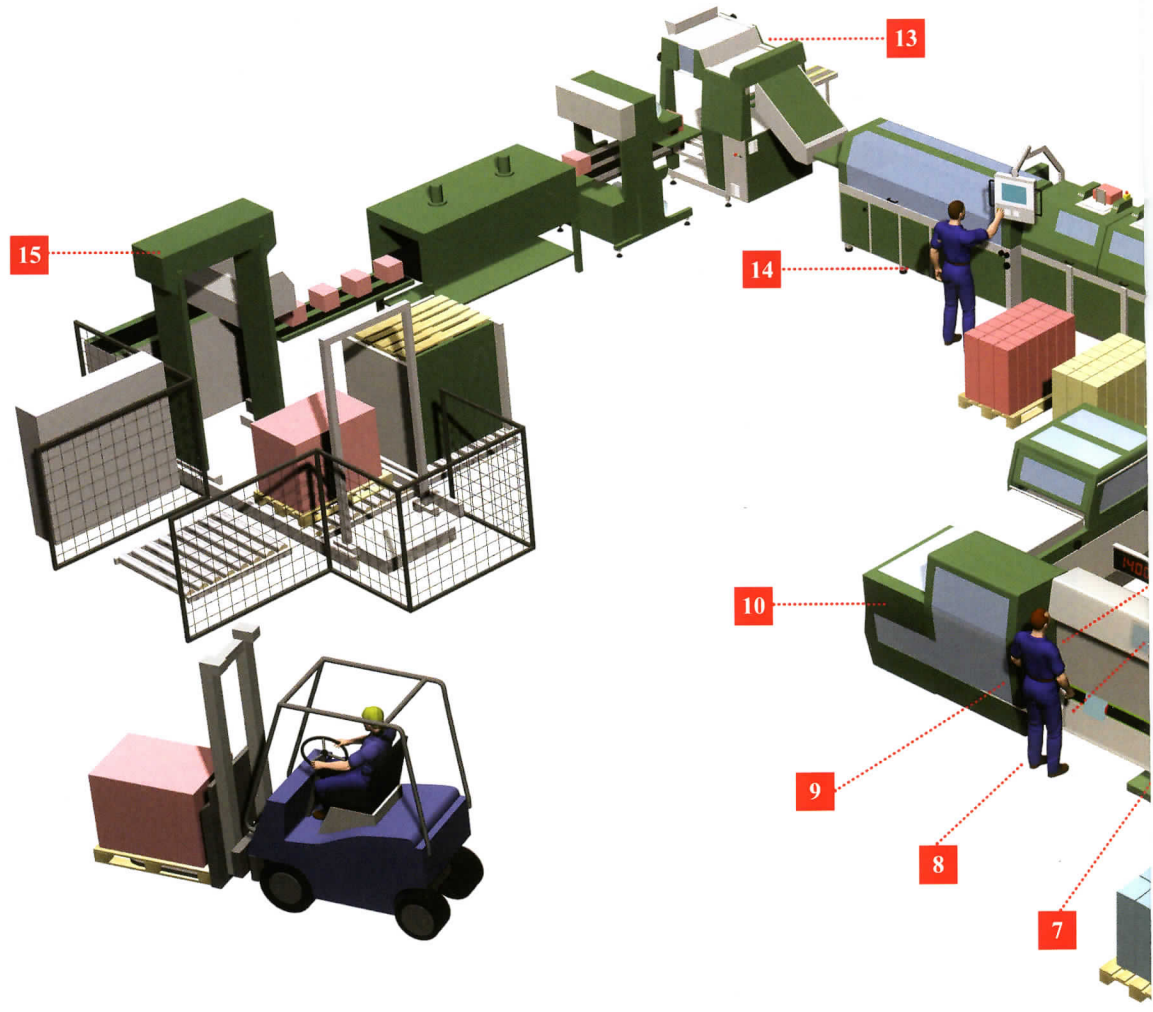
By adding a Tandem element\*, the outstanding production flexibility of the system can be optimized even to a greater extent, as the two machines can be operated individually or linked in tandem.





# «PrimaPlus»

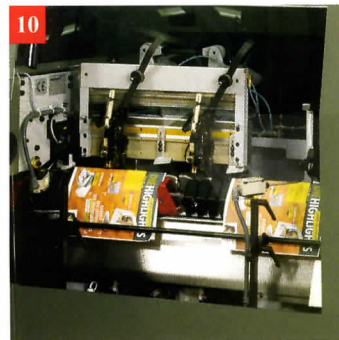
Building block principle for maximum flexibility



14 Inserting and film-wrapping unit Onyx/Rubin – for well-protected products with inserts of all types



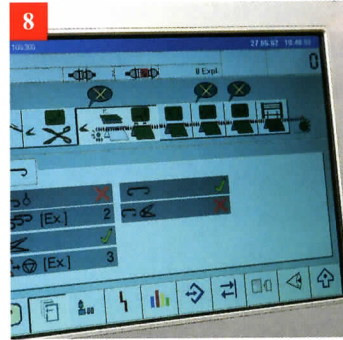
15 «Cohiba» automatic palletizer for fast, efficient and gentle product processing at the end of the production chain



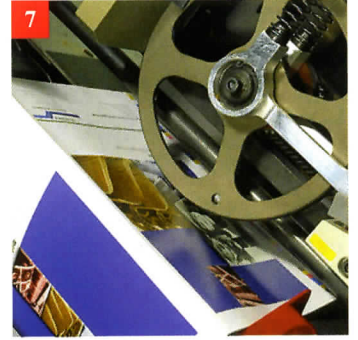
10 Muller Martini stitching unit for standard, loop or child-friendly wire stitching



9 Large display for easy viewing of production status

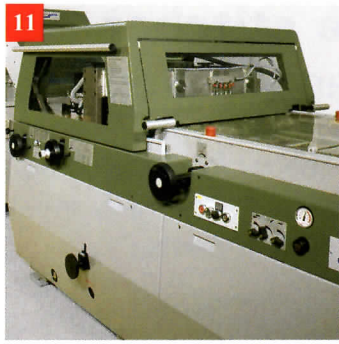
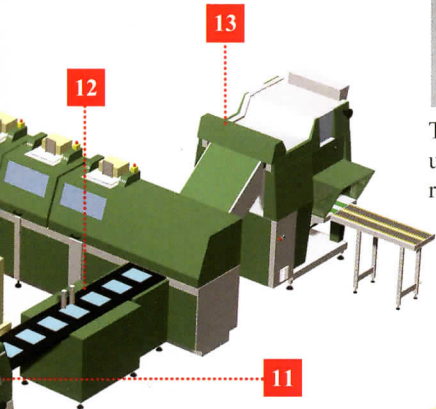


8 Touchscreen operation for optimal production control and monitoring

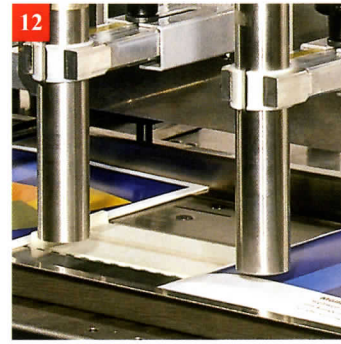


7 Automatic lateral thickness control for checking that each individual copy is complete





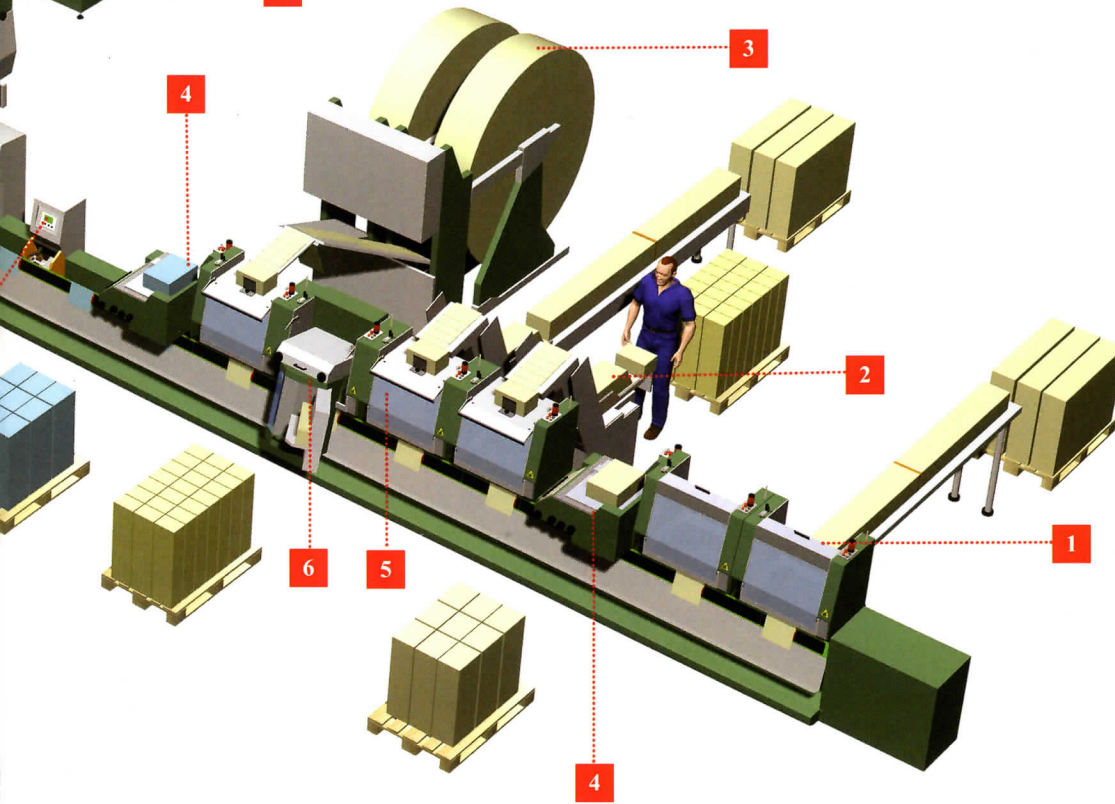
Three-knife trimmer for single, 2-up or 3-up production, or for jobs requiring hole punching



Inkjet mail table for outside addressing



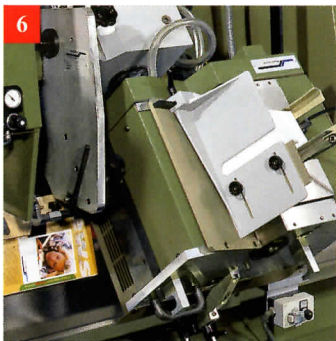
Compensating stacker for perfect stacks



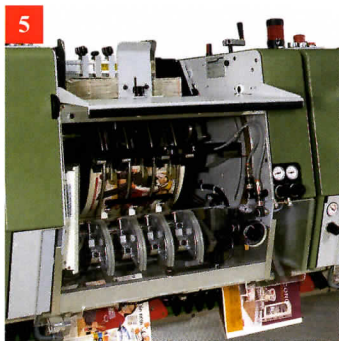
Automatic loading of flat pile feeders with PrintRoll or FlexiRoll system



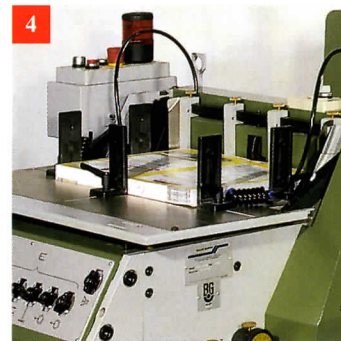
Stream feeding without bundle loading extension on flat pile feeder



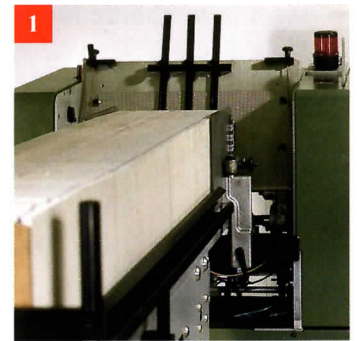
Sample gluer for tipping on merchandise samples, cards, small leaflets, CD-ROMs and Post-it® notes



Flat pile feeder with stream feeder and bundle loading extension



Cover/card folder feeder for folding single-sheet covers and cards



Vertical stack feeder with bundle extension

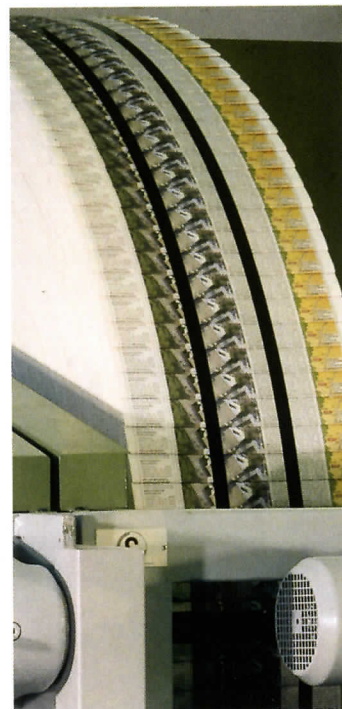


# More than an ordinary saddle stitcher

Efficient solution for the most demanding production needs

«PrimaPlus» offers a choice of feeders, with which a great variety of products can efficiently be processed.

Feeder loading can be manual, with bundles or rolls, to optimally meet individual production requirements.



## Flat pile feeder

- For opening all types of signatures and products with low- or high-folio lap, or no lap
- Available on request with tilt back capability, e.g. for the manual feeding of die-cut gimmicks
- Automatic bundle loading by stream feeder



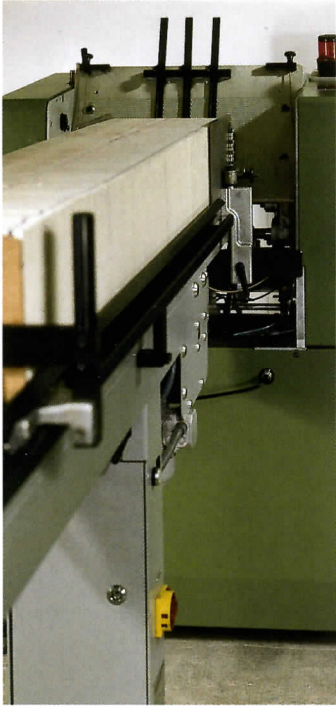
## Stream feeder loading

- Changeover from manual loading to automatic bundle loading in just minutes
- Cost effective, compact solution, and available in two lengths

## Loading by roll system

- The solution for the highest level of automation linking press and finishing





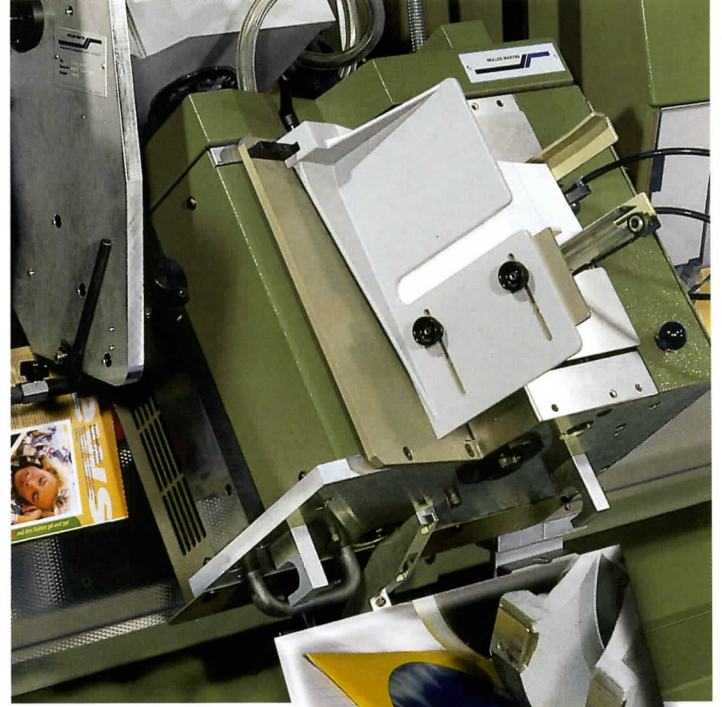
#### **Vertical stack feeder**

- For opening all types of signatures and products with low- or high-folio lap, or no lap
- Recommended for processing of heavy signatures with high page count
- Automatic bundle loading and direct connection to the feeder



#### **Card and cover folder feeder**

- For single-sheet and multi-page covers, signatures or cards
- Scores, folds and feeds products in a single operation
- All settings can be fine adjusted while the machine is running



#### **Sample and card gluer**

- For efficient tip-on of a wide range of merchandise samples, cards, CD-ROMs, Post-it® notes or small leaflets to be attached “spine-to-spine”
- Easily accessible, with large hopper, for efficient operation

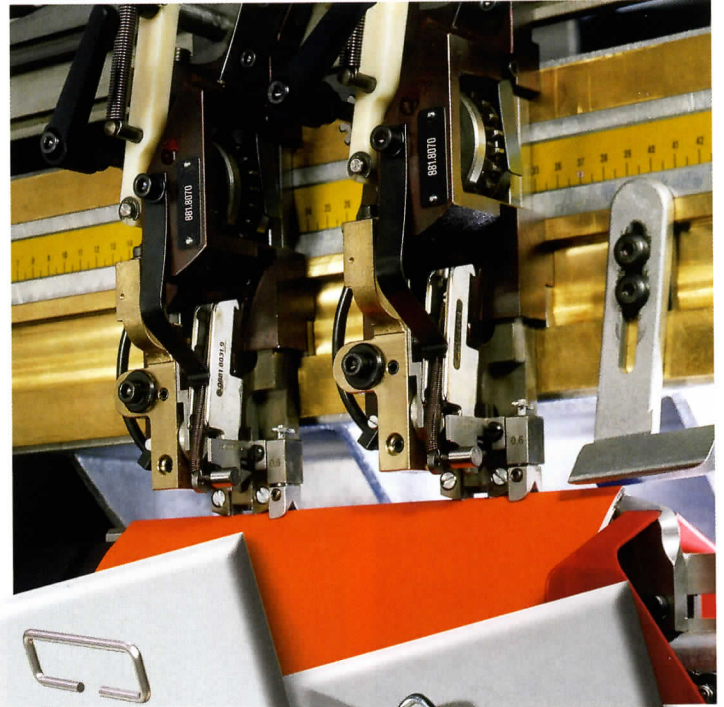


# Precision stitching

Precision technology ensures consistent, reliable operation

Technology pioneered by Muller Martini. The "flying" stitching heads guarantee a high level of processing reliability.

The system guarantees consistent stitching and efficient production flow with minimum wear.



## Stitching machine

- Stitching unit with sturdy, reciprocating movement of the stitcher carriage and continuous double gathering chain
- Stitching action is triggered electro-pneumatically via PLC
- Motorized setting of chain position in the stitching unit by toggle switch – or automatic adjustment in the Amrys version
- Options for various staple types available, for standard, narrow and extra-wide stitching, loop stitching and special child-friendly «Lego» stitching



**«Lego» stitching**  
This special kind of stitching has been developed to protect children's delicate hands. It is primarily used in the production of toy catalogs.

**Standard, loop and specialized stitching methods**  
Muller Martini stitching heads are well known for precise stitching, even under the most strenuous of conditions, such as high-speed, multishift operation. The choice of stitching heads makes it possible to select different types of staples and wire lengths.



# Precision trimming and finishing

for superior product quality

The integrated three-knife trimmer of the «PrimaPlus» guarantees exceptional trim quality and long knife service life. It is easy and quick to set up and uses the most efficient cutting sequence. The compensating stacker produces

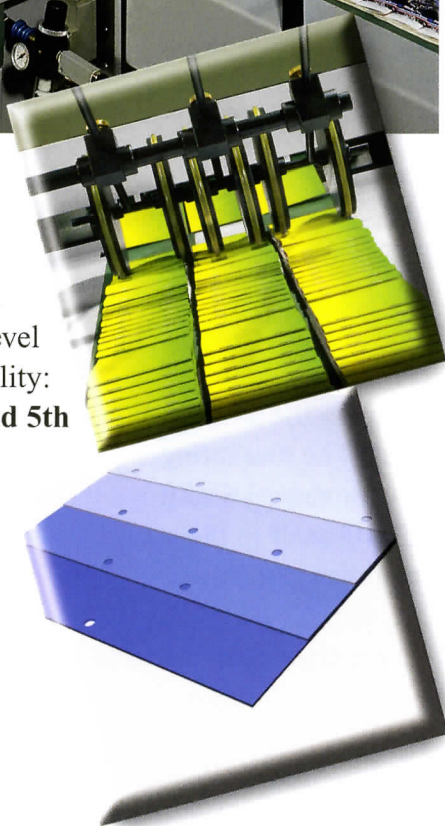
perfect, compensated stacks according to preset count and delivers them to the left, right or alternatively to a downstream machine or delivery table. Choice of «Rapido» or «Rapido» stacker for neatly compensated or uncompensated stacks.



## Three-knife trimmer

The choice of accessories offers an exceptionally high level of production flexibility:

- Center-cut (4th and 5th knife), trio cut
- Wide range of hole punching capabilities
- Pneumatic knife clamping for rapid set-up without tools
- Mechanical lateral alignment for perfect trimming accuracy
- Low-wear, non-marking book transfer system
- Simple centralized setting for product thickness



## «Rapido» Compensating stacker

Short cycle time makes the «Rapido» particularly suitable for mixed destination bundles, key bundles and selective binding.

**Roller delivery**  
Stacks can be delivered on a roller delivery for manual take-off.

**Belt delivery**  
The belt delivery is used for linking the saddle stitching line directly to automatic packaging lines, such as strapping or, polybagging machines and palletizers, etc.



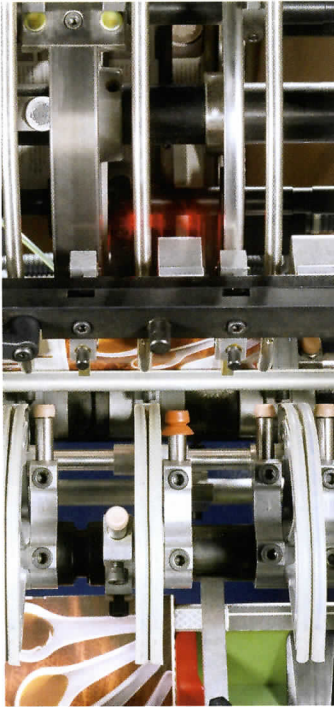


# Quality controls

For reliable production and greater customer satisfaction

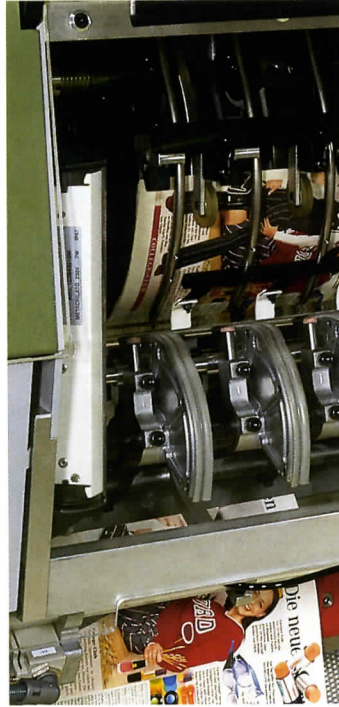
«PrimaPlus» quality controls at all critical stages of the process ensure superior stitch and trim

quality, product completeness as well as reduced waste.



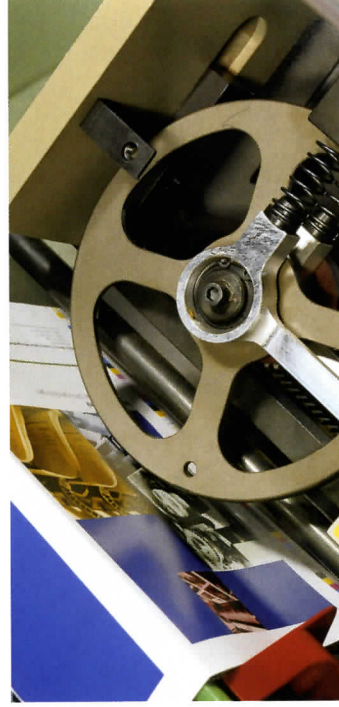
### «Asir» Optical signature recognition

«Asir» – The automatic signature image recognition system compares the signatures processed with a reference signature. Each individual signature is checked. Incorrectly loaded signatures are recognized immediately and faulty copies are ejected unstitched.



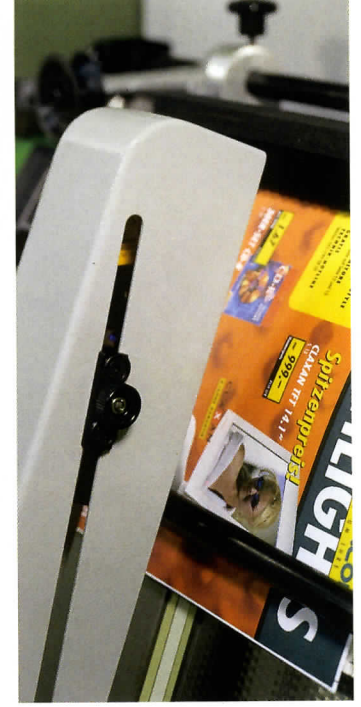
### Copy control system

If the copy control system detects a missing section, the feeding of signatures downstream is inhibited. This feature substantially reduces waste.



### Lateral thickness measurement

Each copy is checked using a reference value. Incomplete copies are ejected unstitched, thus reducing the amount of waste. The measuring system automatically adjusts itself to the reference signature.



### Oblique sheet monitor

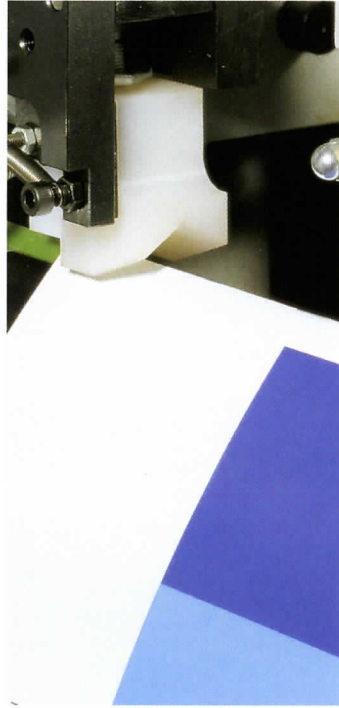
Photocells check the position of each copy. If signatures are detected which are not headed up properly or hang down, these copies are automatically ejected unstitched.





**Thickness measurement by ridge caliper**

Each copy on the chain is checked for correct thickness at the spine. Faulty copies are ejected unstitched.



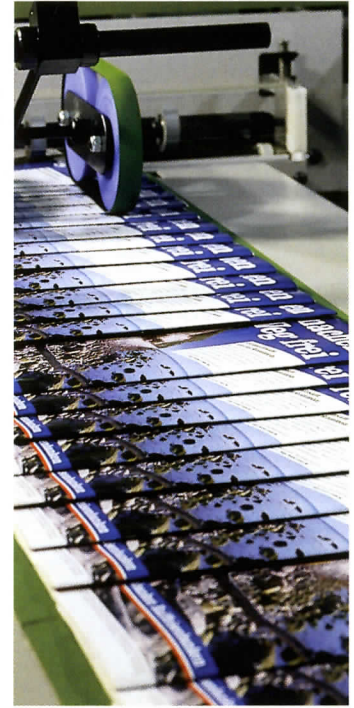
**Staple control**

The staple control continuously checks the preselected number of staples.



**Trim monitor**

During the trimming process, each individual product is checked for trim accuracy by the built-in trim monitor. Faulty products are automatically ejected.



**Sequential start-up**

When production starts, the feeders are switched on sequentially, one-by-one, and when production is finished, switched off sequentially the same way. This process guarantees that only complete products are delivered by the saddle stitching line.



## Ease of operation

For maximum production reliability and high net output

«PrimaPlus» offers maximum net output, thanks to full automation and reliable production. A universal system that is very easy to operate.

With AMRYS, the “Automatic MakeReady System,” set-up time can be reduced by up to 50% – to achieve greatest productivity especially when job structures keep changing all the time.



### Programmable controls

- Touchscreen operation ensures optimum production control and supervision
- Menu-driven and prepared for link-up to a master control system
- Local operator panel on each module
- Large display showing current production data for easy production monitoring
- Data management system for accurate production analysis and optimization. Data output for in-house evaluation
- Modem interface enables remote diagnostics and software updating



### Amrys (Automatic Make Ready System)

Amrys technology from Muller Martini has been awarded the highest accolade by the graphics arts industry in the USA.

- Greater productivity thanks to shorter set-up time
- Automatic size adjustment on feeders, stitching unit, three-knife trimmer and compensating stacker
- Reduces set-up time by up to 50%
- Part-Amrys for automating individual modules. For example: only on the feeders or only on the stitching machine, three-knife trimmer and compensating stacker
- Integration with CIP4 and higher level control systems is possible





# Print finishing from A to Z

## Versatile packaging

Publishers and mailing companies can add value to their printed products by target group-specific assembly (selective binding) and inserting or tipping on inserts, CDs and merchandise samples.



### Feeding – Inserting – Film wrapping

«Onyx/Rubin» inserts supplements or lays them on top, film wraps them – thus protecting valuable products – addresses them and delivers them for downstream processing/conveying.

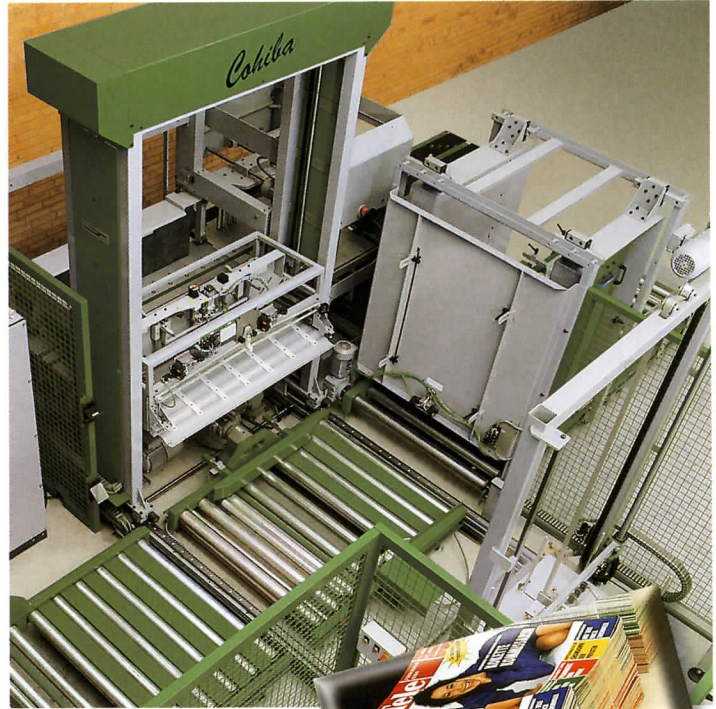
### Inline finishing

- Products are finished right after the saddle stitcher or perfect binder

### Offline finishing

- Printed products can be fed manually from several production lines to the inserting and film-wrapping line

At the end of every print finishing process the question always arises as to the most economic method of packaging and processing the finished products. The «Cohiba» automatic palletizer offers many advantages.



### Inline palletizing The most efficient solution

The «Cohiba» is suitable for any finishing system – irrespective of whether perfect bound or stitched products leave the compensating stackers in loose or statically blocked stacks. Products are handled gently during palletizing, thanks to air cushions in the infeed, on the divert table and the gripper head.

- Dialog between operator and machine is simple, thanks to touchscreen operation
- Efficient processing and optimal pallet layouts as suggested by the computer





## «PrimaPlus» Saddle Stitching Line

The flexible production system  
for print finishing companies  
with variable job structures.

This brochure may show components which are not standard equipment and are available as options only. In some cases, protective covers in the photographs have been removed or opened for illustrative purposes. Design, measurements and equipment configurations subject to change.

Sales and Service

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