2013/2014

BÖWE SYSTEC Products

2013/2014

BÖWE SYSTEC Products

in·no·va·tion

[ˌɪnəˈveɪʃn], noun

1 (uncountable) the introduction of new things, ideas or ways of doing something: **an age of technological innovation; the company is very interested in product design and innovation**

2 (countable) a new idea, way of doing something, etc. that has been introduced or discovered: **recent innovations in steel-making technology**

source: www.oaadonline.oxfordlearnersdictionaries.com

cus·tom·er ben·efit

[ˈkʌstəmər ˈbɛnəfɪt], noun

1 The real or perceived value that a customer experiences or believes he is receiving through interaction with a company: **the resolution of a problem, achievement of a desired outcome or fulfillment of a need through a purchase; a feeling of confidence following purchase; satisfaction with post-purchase service**

source: www.businessdictionary.com

sus·tain·abil·ity

[səˌsteɪnəˈbɪləti], noun

1 involving the use of natural products and energy in a way that does not harm the environment: **an environmentally sustainable society**

2 that can continue or be continued for a long time: **sustainable economic growth**

source: www.oaadonline.oxfordlearnersdictionaries.com

BÖWE SYSTEC 2013/2014

"Today, with Fusion Cross the world's most modern mailroom is currently being created. With our most recent innovations Watermill and Cardcube, we have now set ourselves the target to revolutionize complex processes in card logistics."

(Heiner Kudrus, CEO, BÖWE SYSTEC GmbH)

Editorial
Heiner Kudrus, CEO

The benefits of postal and digital communication are being discussed intensely across the globe. Sometimes, these are viewed as competing technologies and sometimes as parallel solutions. We at BÖWE SYSTEC believe that both technologies are crucial – not only in order to meet each and every person's need to be well-informed – but also to build and maintain a strong communication platform between companies and their customers. Even for the younger generation – growing up in this "Digital Age" – paper products continue to play a significant role.

Sustainable customer loyalty, in our view, can only be achieved by creating high quality mailing activities which stand out from bulk mailings and are tailored to specific customer demographics. The challenge being the implementation in the most cost effective manner. BÖWE SYSTEC, understanding the need to provide the market with economic and flexible solutions, introduced the high-performance inserting system Fusion Cross in 2012. Shortly after its market introduction, one

of the world's leading financial institutions and largest transactional mailers in the United States is currently creating the world's most advanced mail production capability utilizing only one type of machine: Fusion Cross.

A Single Machine Type Strategy (SMTS), with all applications being processed on one platform, allows companies to optimize capacity planning and system utilization resulting in cost savings and greater levels of efficiency. This new technology challenges all established principles of inserting and allows the greatest processing range from smallest US sizes up to largest formats, such as B4 or Flats, with a weight of up to one kilogram with fully automatic changeover capability. Peak loads, for example, that rarely occur throughout the year, such as the processing of annual reports, will no longer need to be processed on seldom used inserters. A Fusion Cross mailroom is able to process this material on all systems simultaneously without problems. Simply stated, Fusion Cross elevates

production efficiency to an entirely new level.

BÖWE SYSTEC, as a leading supplier of card processing solutions, also continues to invest in card production technology. To date, billions of ID and credit cards have been processed securely on BÖWE SYSTEC systems. As such, we are excited to introduce Cardcube in 2013, a mid-range solution with a throughput of up to 4,000 cards per hour.

Cardcube technology adds to our expanding portfolio with numerous innovative, patented and patent-pending developments to improve card processing. For example, by employing robotics technology in the attaching station, rejected plastic cards no longer have to be diverted but can be put into parking positions until the reprint of the carrier has been created and then automatically attached. The manual process usually involved with diverted cards is thus eliminated. In addition, a new highly flexible folding technology that operates like a

"hammer" and only affects the folding edges, produces precise card carrier folds and prevents imprints of embossed cards on the letter – regardless of whether none, one or up to four cards are attached to the document. Watermill, another 2012 innovation, interacts closely with Cardcube.

Watermill is the world's only system for storing and retrieving credit cards, in any given order, after personalization – all without any manual intervention. Thus, Watermill makes card personalization independent from the actual process of card mailing. This system enables the personalization batches to be optimized within themselves, as sequences for the ensuing card mailing process will only be created afterwards. Watermill enables different types of cards, such as American Express, Visa, MasterCard, magnetic or chip cards from different personalization jobs to be collated and sent out on one single carrier document.

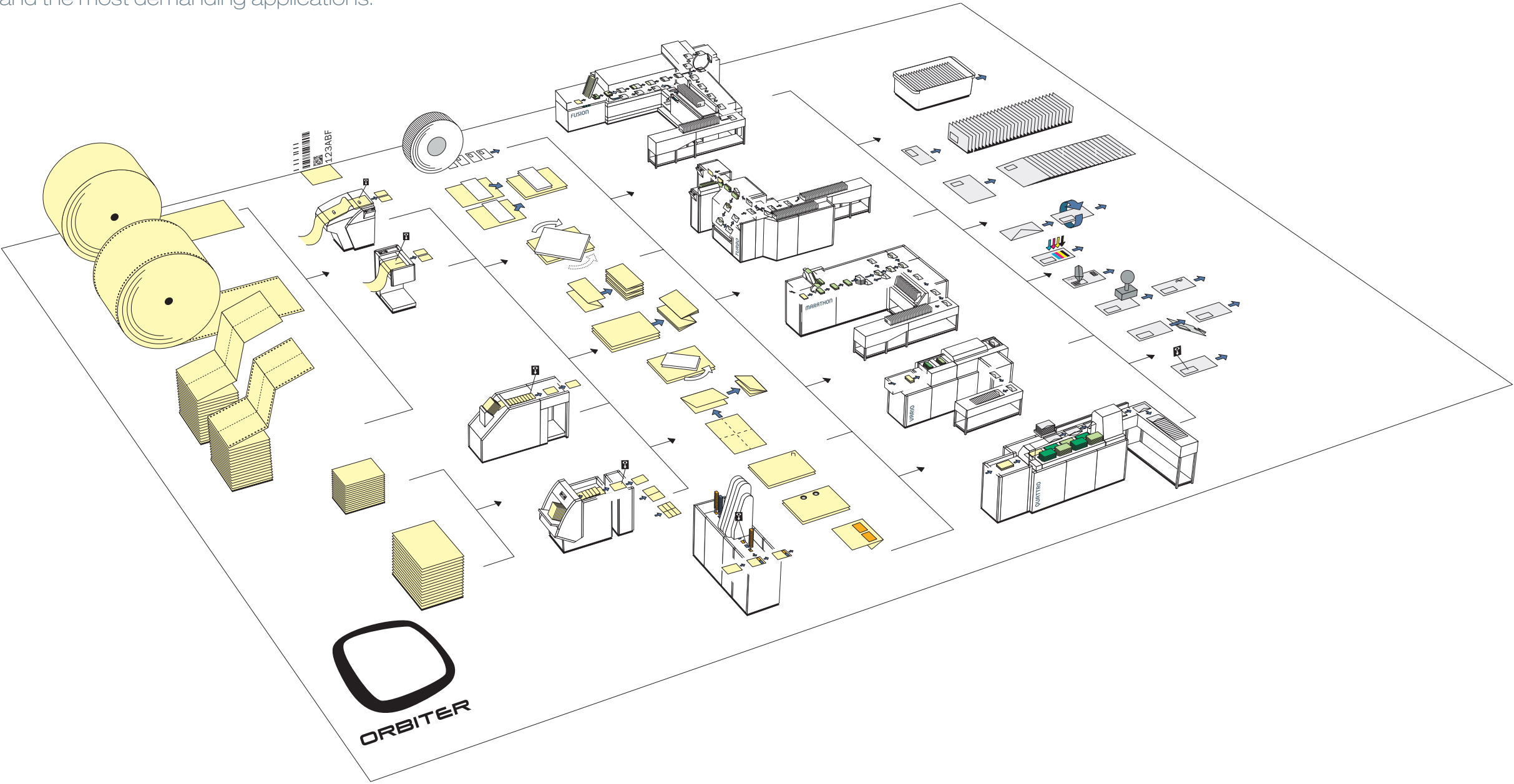BÖWE SYSTEC systems continue to deliver solutions offering the highest level

of mailpiece integrity within the most demanding mailing environments. We are therefore particularly proud of being honored for 100 percent integrity from a large American banking group: Ten consecutive years without a single wrong insertion. Billions of transactional documents and more than 500 million credit cards were processed for this banking company alone within this period of time.

BÖWE SYSTEC will continue to be a leader in R & D investment in order to create innovative solutions with even more customer value. We thank you for your interest in our company and trust you will find our Product Book 2013/2014 of world class solutions to be informative and of interest. Please join us and discover the mailroom of tomorrow.

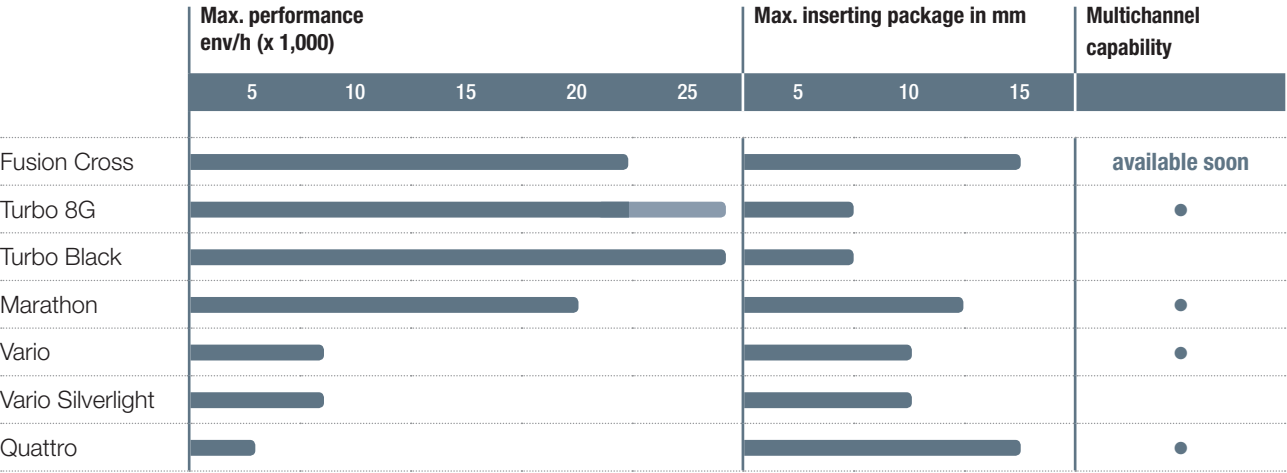Heiner Kudrus
CEO, BÖWE SYSTEC GmbH

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Customized solutions
for modern mailrooms

BÖWE SYSTEC offers an extensive portfolio of inserting, card logistics and card mailing systems for the most diverse range of performance – beginning with basic systems through to intelligent and fully automated high-performance systems for the largest mailing volumes and the most demanding applications.

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BÖWE SYSTEC
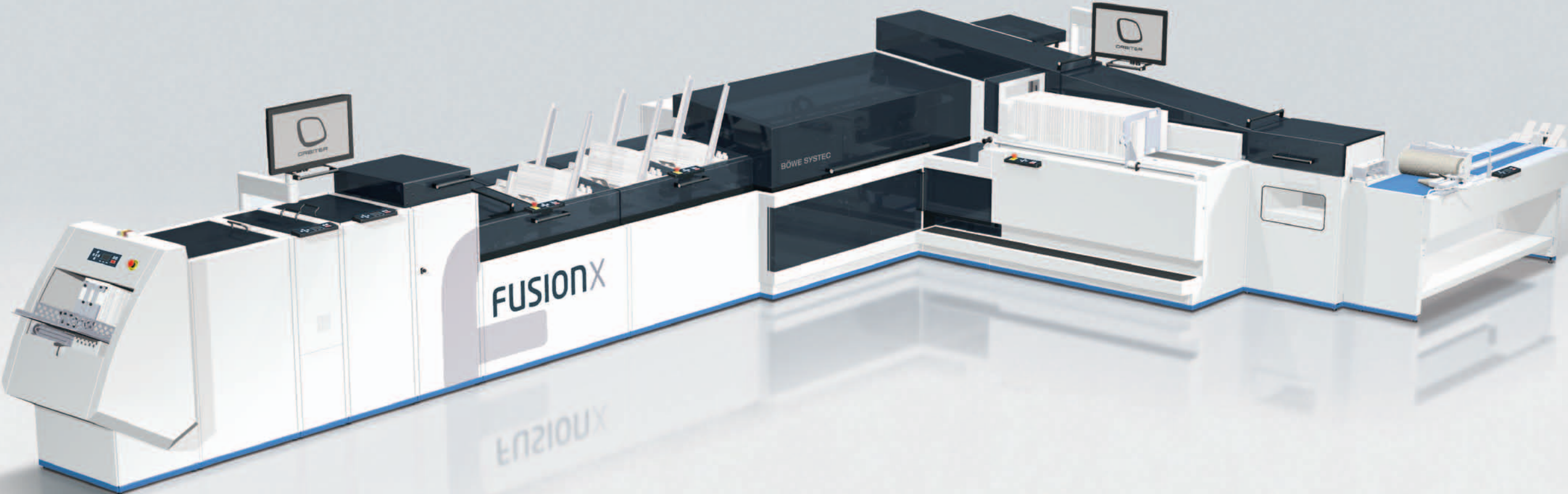2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

Product portfolio
Inserting

	Max. performance env/h (x 1,000)					Max. inserting package in mm			Multichannel capability
	5	10	15	20	25	5	10	15	
Fusion Cross									available soon
Turbo 8G									●
Turbo Black									
Marathon									●
Vario									●
Vario Silverlight									
Quattro									●

Envelope formats	C6	B6	B6+ #7 3/4	DL #10	C6/5	C5 6 x 9	B5	Stretch/ Brokerage	C4 9 x 12 Flats	B4 10 x 13
Fusion Cross			●	●	●	●	●	●	●	●
Turbo 8G	●	●	●	●	●	●				
Turbo Black	●	●	●	●	●	●				
Marathon	●	●	●	●	●	●	●			
Vario	●	●	●	●	●	●	●			
Vario Silverlight	●	●	●	●	●	●	●			
Quattro	●	●	●	●	●	●	●	●	●	●

● Standard
○ Option

The revolution
in high-performance inserting

FUSION X

B6+→B4
#7 3/4→Flats

22,000 env/h

10 mm/0.4"

1 channel

100,000 sheets/h

15 mm/0.59"

FUSIONX

BÖWE SYSTEC
2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

A revolutionary new approach
to inserting

A new age of inserting has begun. Fusion Cross will revolutionize your mailroom. No other system is as flexible or as capable of processing such a vast spectrum of envelope formats and filling thicknesses while still being so fast, gentle to the material and reliable. An intuitive, operator-friendly system for all requirements at the highest levels of performance.

Flow-Principle for gentle treatment of material and safe processing

Highest **flexibility and investment protection** due to the open device carrier concept

Single Machine Type Strategy (SMTS) – one high-performance inserting system for nearly all applications

Broadest format- and filling thickness spectrum including C4, Flats and Stretch in the high-performance segment

Self explanatory, **easy and intuitive operation**

Universal **modularity**

The Flow-Principle
The discovery of slowness

With the "Flow-Principle", BÖWE SYSTEC has introduced a completely new approach to inserting, letting the whole production process flow smoothly. Even at the highest speeds this ground-breaking new inserting principle ensures especially reliable processing which is also gentle on material and machine. The required integrity is ensured by intelligent system control and monitoring on the one hand and continuous document tracking throughout the production process via the link to our powerful software on the other.

With Fusion Cross BÖWE SYSTEC has reduced and harmonized the overall speed of insertion by maintaining the material flow at a constant speed which, as a result, leaves substantially more time to perform the actual inserting procedure. The individual processing steps take place with slightly offset timing, catching up with each other and smoothly merging

into each other. Fusion Cross discovers slowness as a means to considerably increase productivity and output.

> Smooth material flow

> As processing takes place face down, enclosures can be easily fed onto the documents

> Maximum process security by optimization of material speeds

> Gentle and reliable processing of common and challenging material due to protective guiding elements

> Reliable production due to low-wear servo technology and gentle processing
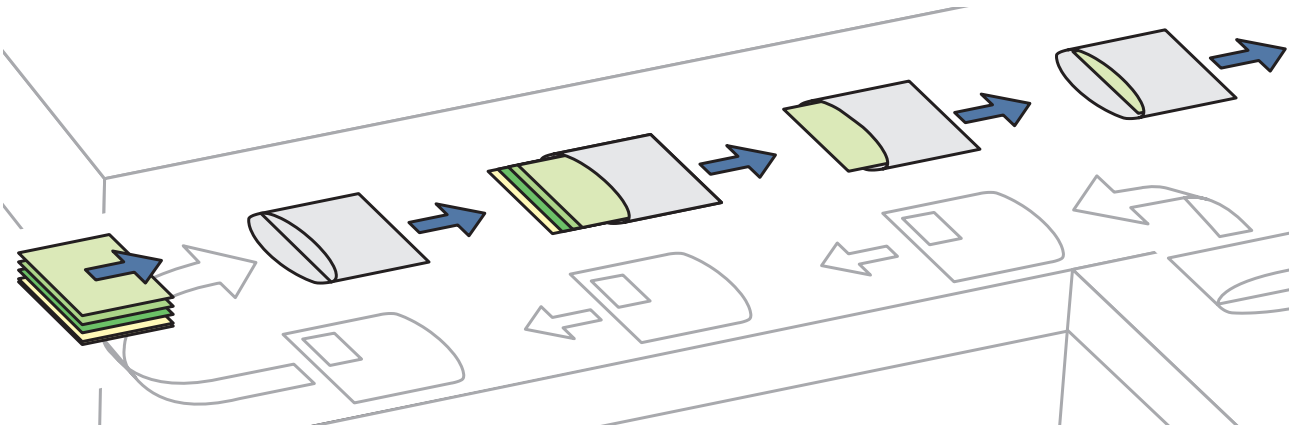
Taking advantage
of physical laws

1 Redirect and turn-over

> Process realized in Flow-Principle for the first time

> 90°-redirection of open, empty envelopes at full speed

> Format-independent method which requires no adjustments
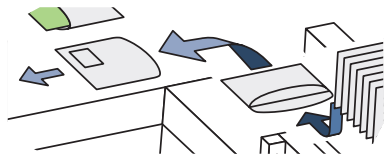
**2 Inserting procedure**

> Patent-pending principle for gently opening and filling envelopes

> Material to be filled moves slightly faster and catches up with the envelope

> Decelerated filling process for highest insertion security

> Gentle guidance of filling material and controlled inserting procedure – even for difficult material or high filling thickness
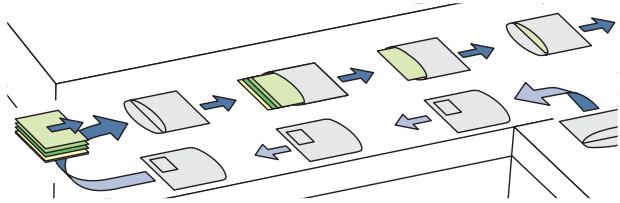
3 Redirect and close

> Redirection of the open, filled envelope while running at full speed

> Redirects even rigid filling material without a problem

> Closes envelopes and ejects them face up, ideal for post-processing
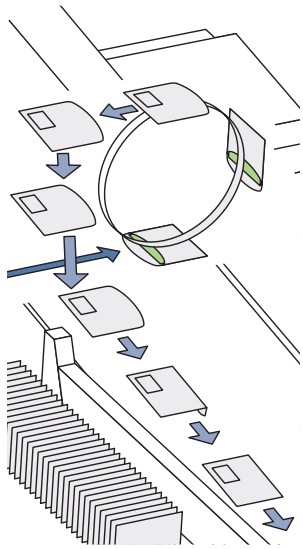
Cutting edge infeed technologies
provide maximum performance

The sophisticated document input of Fusion Cross makes this system a powerful partner in the high-performance segment. Infeed channels in various performance classes for cut-sheet and continuous processing meet the most diverse requirements in the mailroom and ensure maximum efficiency. For continuous processing, Fusion Cross again makes use of the Flow-Principle: The integrated turning unit rotates the documents by 90° clockwise or counter clockwise if necessary without stopping, enabling the processing of C4, Flats or Stretch applications while retaining the same high speed. C4, Flats or Stretch applications can now be processed from the same infeed channel as applications in DL or #10 format.
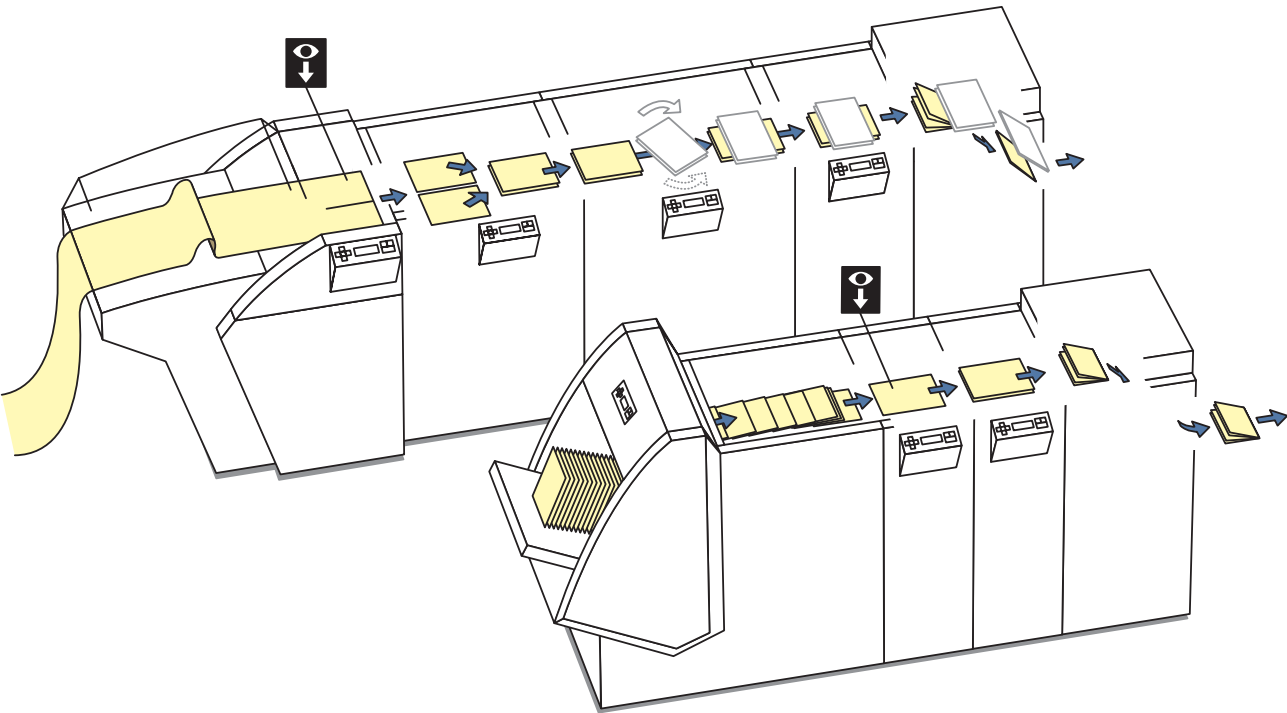
1 Continuous processing

> High rate of productivity, since operator intervention is required only during roll changes

> Processes C4, Flats and Stretch applications from the same infeed channel as applications in DL (#10) format

> The turning unit integrated in the infeed channel rotates sheets 90° clockwise or counter-clockwise if needed – without stopping

> The turning unit also enables the production of C4, Flats and Stretch applications for 2-up portrait format printing

> Rotation is performed without limiting the throughput of the infeed channel

> Turning unit includes an integrated alignment function for secure transfer of documents to the assembly station
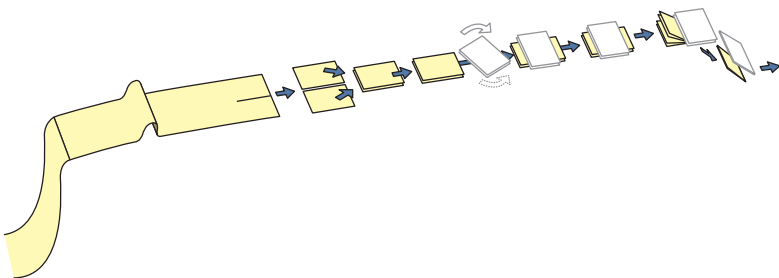
2 Cut-sheet processing

> Allows processing of various grades of paper in a single stack

> Reprints can be processed quickly, even in small quantities

> No turning unit required, as A4 and US letter sized materials can be processed in landscape format
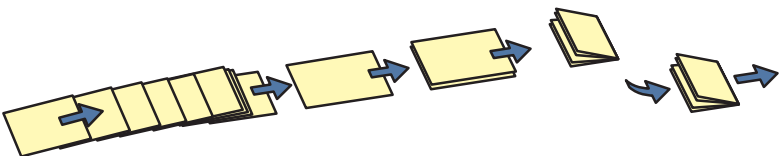
The perfect fold
at maximum speed

BÖWE SYSTEC offers a variety of folding units that allow Fusion Cross to achieve precise folding results, even at top speed. Equipped with powerful modules with either two or four folding pockets, it is able to fold up to eight or up to 16 sheets at a time. Whether Z, C, single or double parallel fold, Fusion Cross has the right solution for every application.

The folding modules include two or four pockets and ensure the highest accuracy during folding. The heavy-duty four pocket folding unit offers high flexibility with regards to the feeding direction and the type of fold. It can fold up to 16 sheets at once (single fold). Both folding modules offer assembling before and/or after folding.
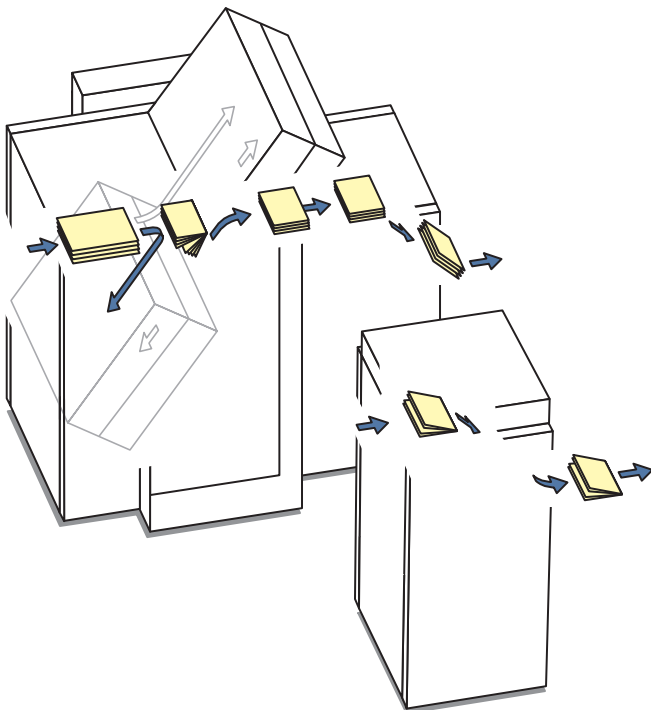
1 **Heavy-duty four pocket folding unit**

› Z, C, single or double parallel fold

› Folds up to 16 sheets (single fold)

› Four folding pockets enable a wide variety of applications

› Integrated pressure roller ensures optimum folding results

› High flexibility in regards to the feeding orientation

› Assembling before and/or after folding

› Assembling before folding in ascending or descending order

› Servo-driven combination buckle plates with a high degree of automation enable fast set-up and prevent manual errors

› Quick set-up enabled by automatic adjustment of the folding pockets as well as folding rollers via BIPS
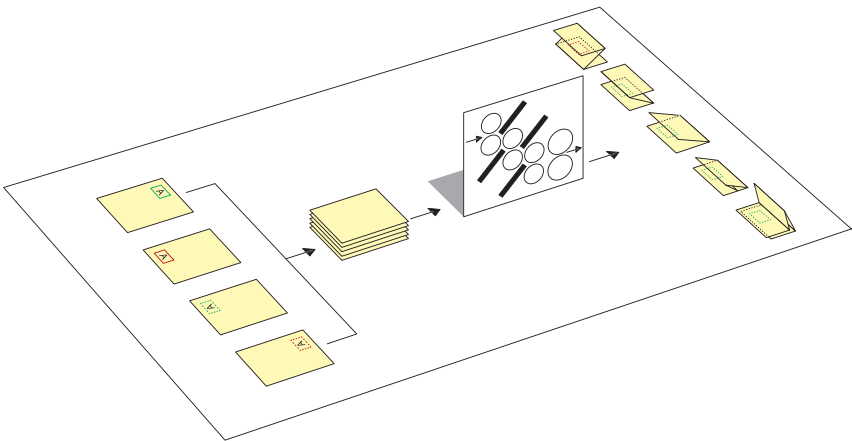
2 **Two pocket folding unit**

› Z, C, single or double parallel fold

› Folds up to eight sheets (single fold)

› Assembling before and/or after folding

› Short set-up times thanks to the automatic adjustment of the folding pockets via BIPS
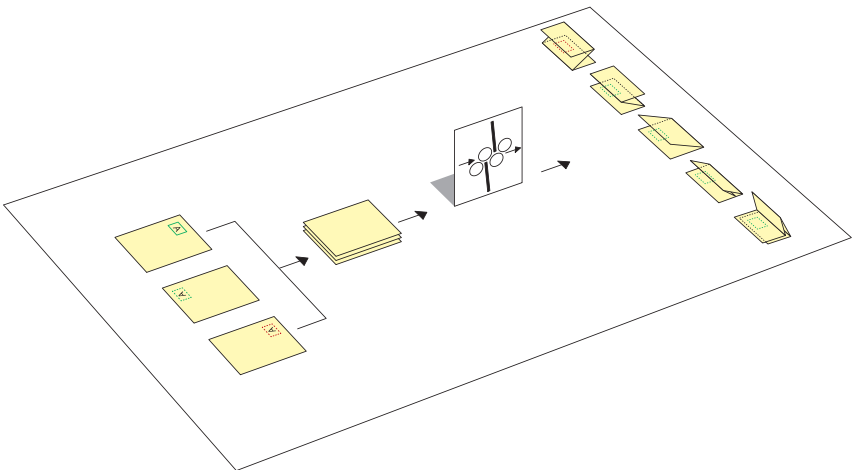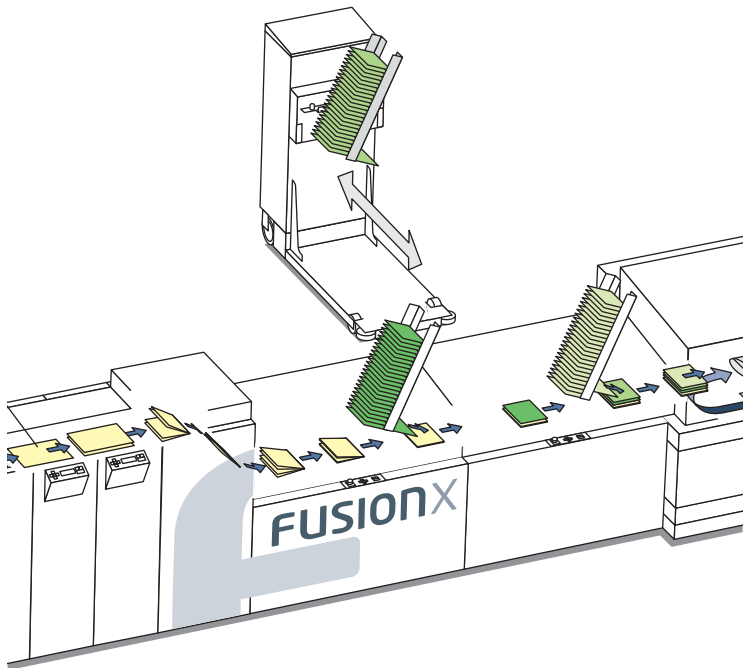
High enclosure flexibility
for highest possible investment protection

The open device carrier concept of Fusion Cross collating track permits not only the simple change between varying enclosure feeders but also retrofitting to accommodate changing requirements. The feeders can be freely positioned and beyond that, devices for special applications or cameras can be easily integrated.

∞

Fusion Cross bridges the gap between transactional and direct mail: High-value processing of important documents and non-standard enclosures while retaining the highest integrity. Furthermore, Fusion Cross guarantees high flexibility due to the open device carrier concept.

› Fast and simple exchange of the enclosure feeders

› Integration of devices for special applications or cameras are possible at any time

› Integration of object feeders for advertisement or direct mail

› High degree of investment protection

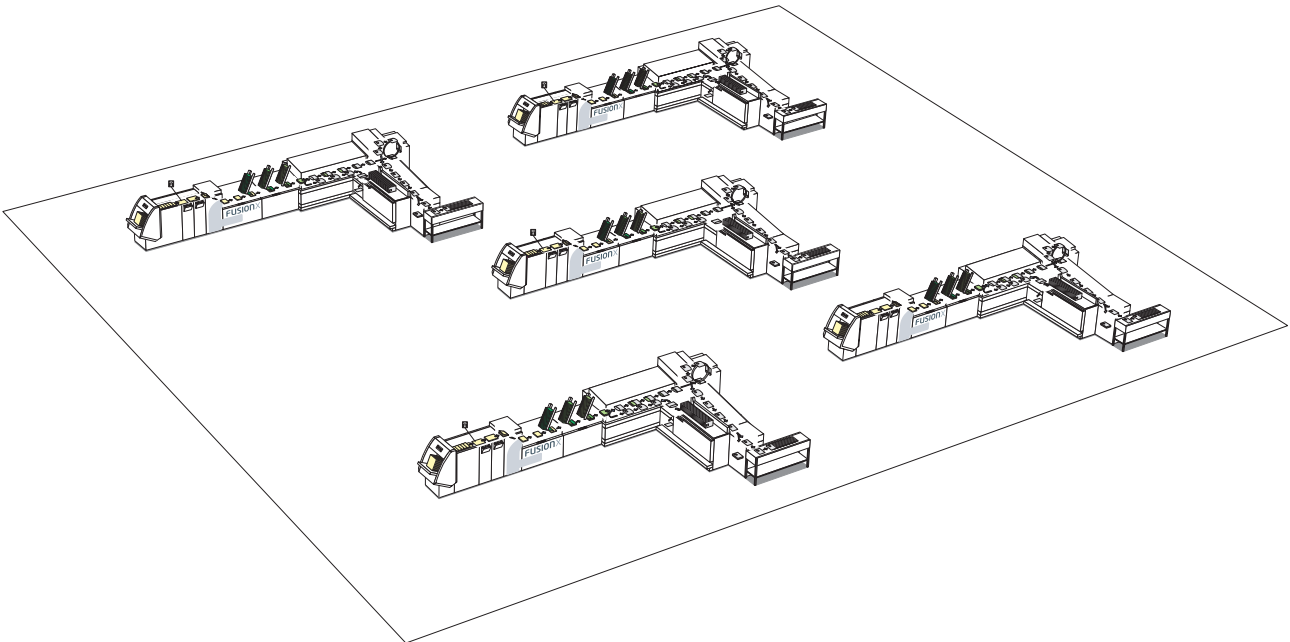# A high-performance inserting system
for all applications

Due to the uncompromising performance characteristics, the revolutionary inserting principle as well as the exceptional enclosure flexibility, Fusion Cross combines all requirements crucial to the success of modern mailrooms. Fusion Cross encompasses nearly every application in postal and service centers, covers nearly all applications and offers quantifiable production – regardless of the size of the mailroom and number of systems.

1

SMTS – Single Machine Type Strategy: A high-performance inserting system for all applications.

› Minimal training requirement for only one type of machine

› Flexibility in personnel-, shift- and material planning

› Reduction of service- and maintenance costs

› Short changeover times and reliable production

› Transfer of recipes to machines of the same type is possible without difficulties

› Equalizes the capacity utilization of all systems

The broadest spectrum of formats
in the high-performance segment

No other high-performance inserting system is as flexible and processes as a broad spectrum of envelope formats as Fusion Cross. This revolutionary system is able to handle both small formats like B6+ or #7 3/4, as well as large formats like C4, B4 or Flats without any difficulty. Even at high speeds, Fusion Cross is therefore able to meet all the diverse requirements of a mailroom perfectly. Quick set-up times and easy changeover between different formats round off the Fusion Cross portfolio.

22,000

#7 3/4
B6+
#10
DL
C6/5
6x9
C5
B5
Stretch

16,000

C4
Flats
B4
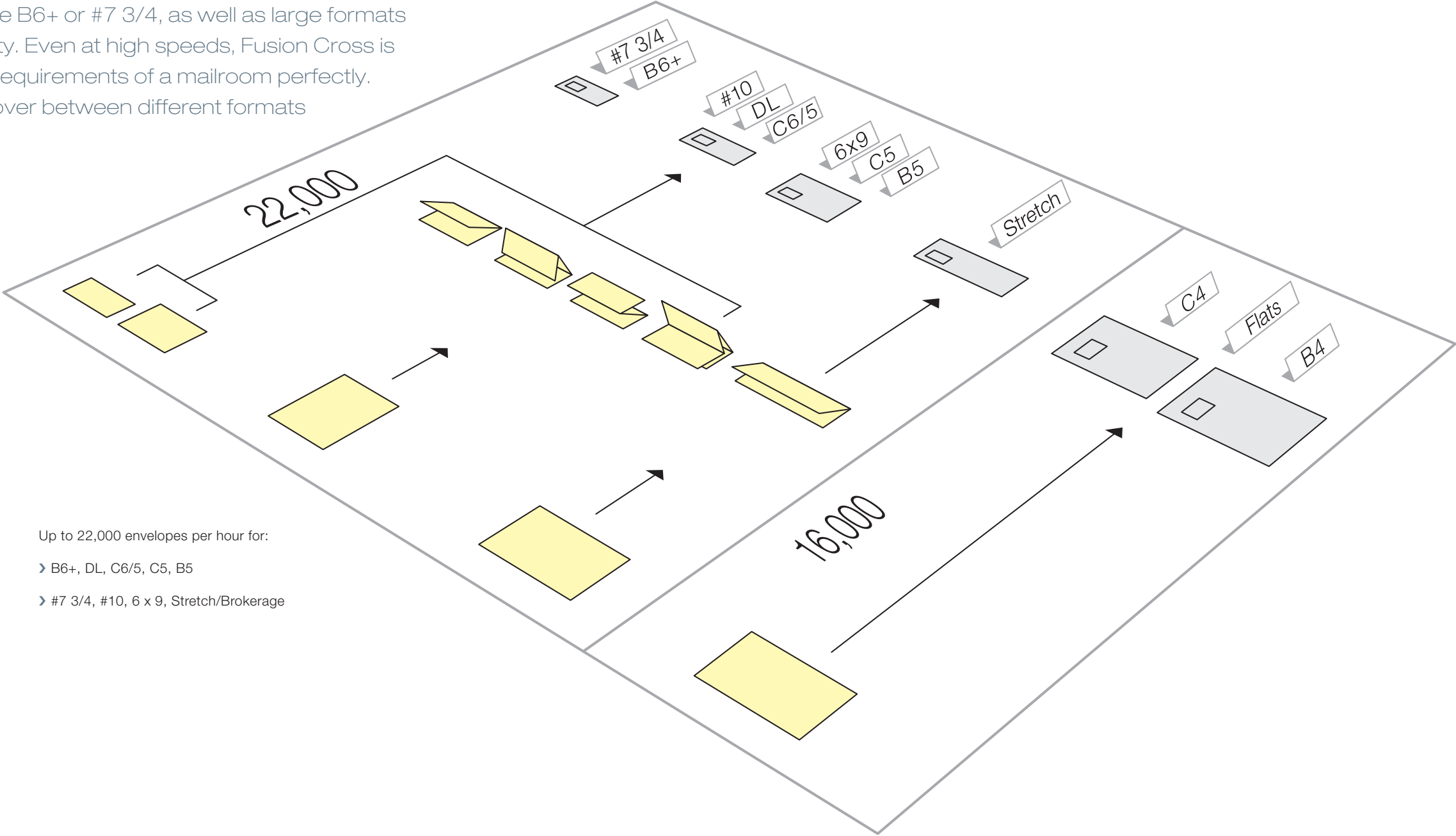
Up to 22,000 envelopes per hour for:

❯ B6+, DL, C6/5, C5, B5

❯ #7 3/4, #10, 6 x 9, Stretch/Brokerage

Up to 16,000 envelopes per hour for:

❯ C4, B4

❯ Flats (9 x 12, 10 x 13)
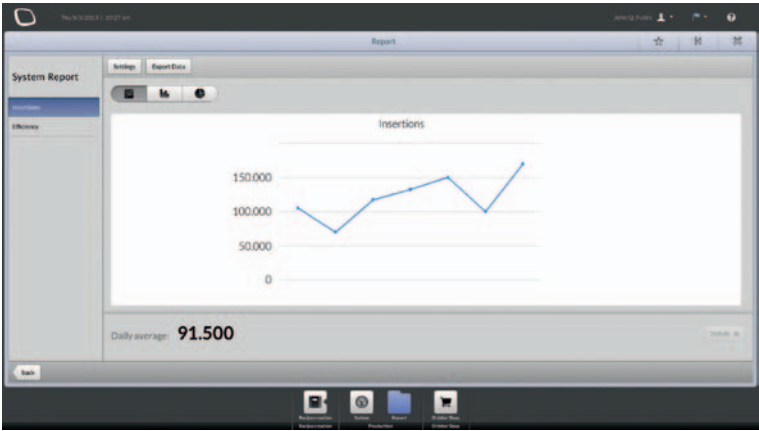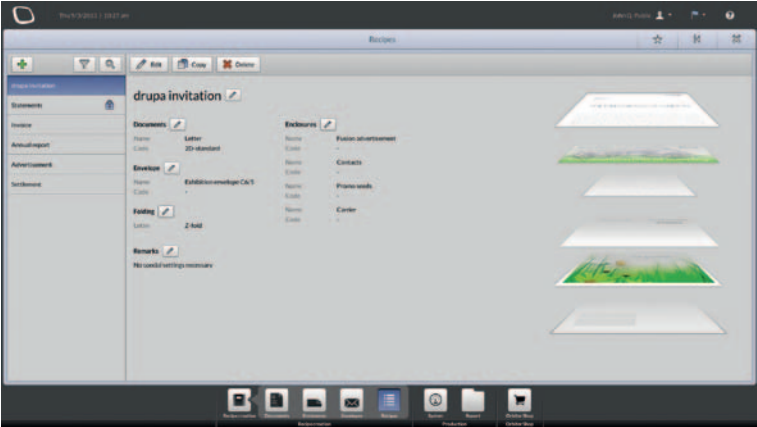
BÖWE Cockpit
Smart man-machine-interface

Thanks to a completely new user interface, Fusion Cross can be operated easily and intuitively. State-of-the-art touchscreen displays assist user guidance with a new type of position control: They are self-orientating which enables the operator to see any information that may be necessary from the machine component he is currently working on. An interactive help function assists in set-up and trouble-shooting. The standard BÖWE Cockpit for Fusion Cross consists of three apps: System Operation, Recipe and Report.

Thanks to the application **BÖWE Cockpit Recipe** the user – for the first time – is no longer required to program any machine functions, instead he only has to describe the characteristics of the material to be processed. This means that detailed knowledge of the system is no longer required. A recipe consists of pre-defined material modules (e.g. documents, enclosures, envelopes). Recipes are created independently from the inserting system and may be processed on different inserters.

BÖWE Cockpit System Operation
guides the user through job processing. An intuitive and virtually text-free user interface provides for user friendliness. A graphically supported help-function assists in set-up and trouble-shooting.

BÖWE Cockpit Report for application and system oriented report creation.

# Universal modularity
throughout the inserting processes
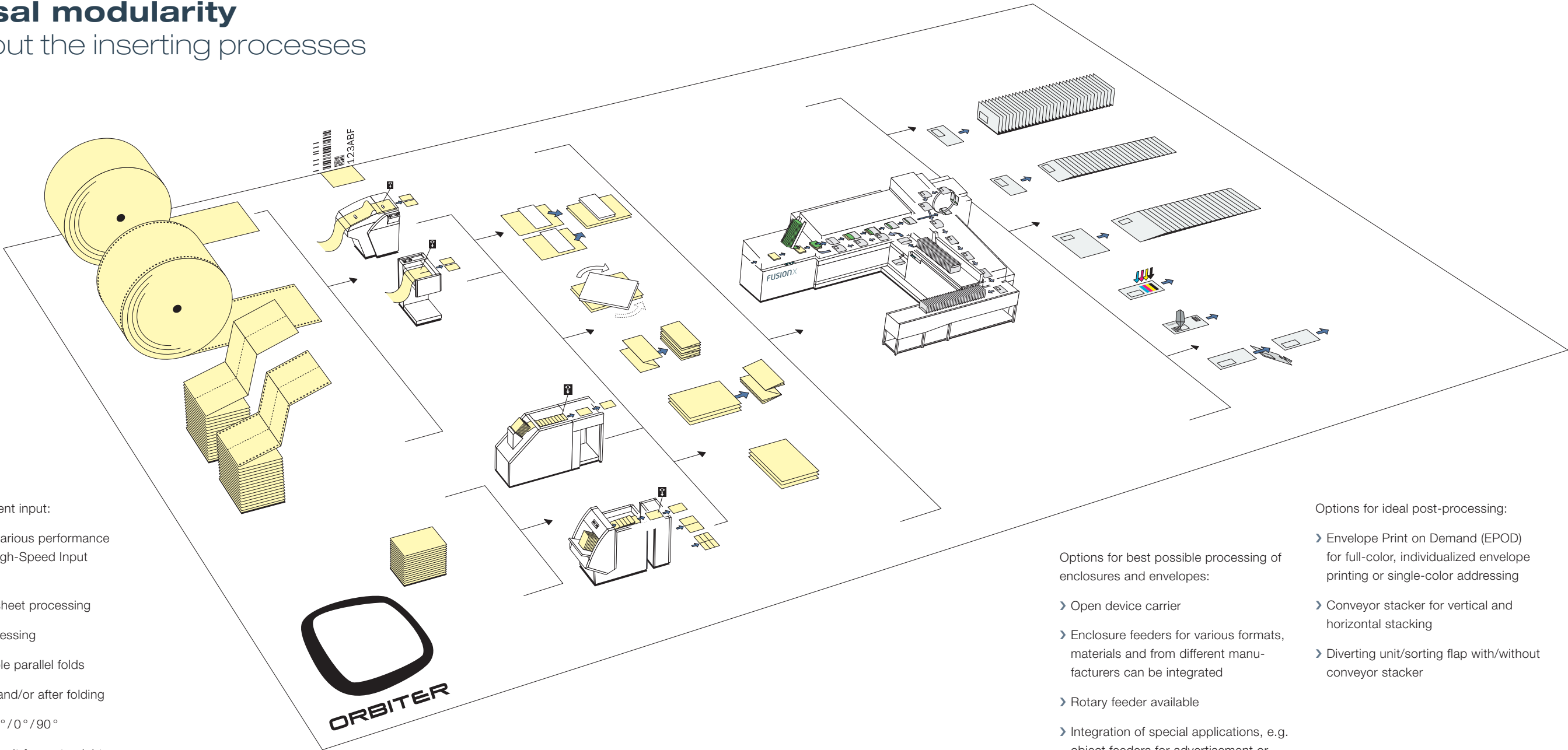
ORBITER

Highly flexible document input:

❯ Infeed channels in various performance classes including High-Speed Input Channel

❯ Continuous or cut-sheet processing

❯ 1-up and 2-up processing

❯ Z, C, single or double parallel folds

❯ Assembling before and/or after folding

❯ Turning module -90°/0°/90°

❯ Two pocket folding unit for up to eight sheets (single fold) or heavy-duty four pocket folding unit for up to 16 sheets (single fold)

Options for best possible processing of enclosures and envelopes:

❯ Open device carrier

❯ Enclosure feeders for various formats, materials and from different manu- facturers can be integrated

❯ Rotary feeder available

❯ Integration of special applications, e.g. object feeders for advertisement or direct mail

❯ Reading units in enclosure or envelope feeder to enable the matching of the letter with enclosures and envelopes

Options for ideal post-processing:

❯ Envelope Print on Demand (EPOD) for full-color, individualized envelope printing or single-color addressing

❯ Conveyor stacker for vertical and horizontal stacking

❯ Diverting unit/sorting flap with/without conveyor stacker

Technical Data
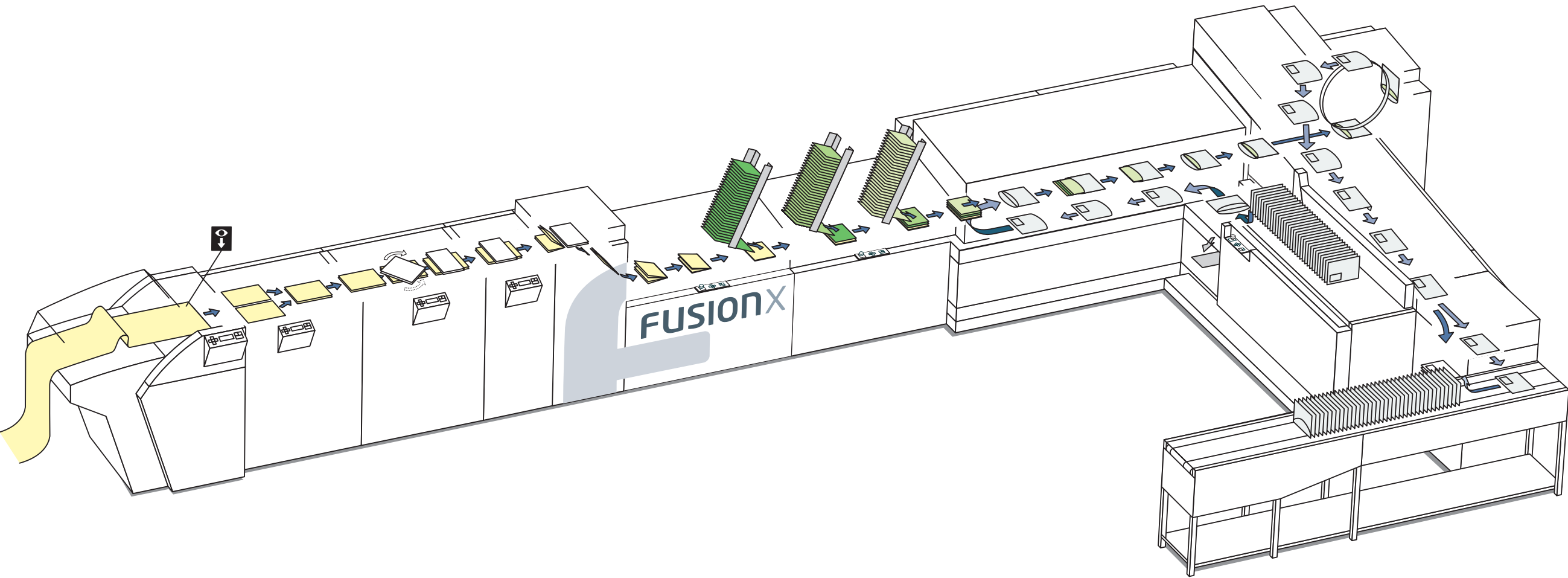
Max. performance

B6+, DL, C6/5, C5, B5	up to 22,000 env/h	C4, B4	up to 16,000 env/h
#7 3/4, #10, 6 x 9, Stretch/Brokerage		Flats (9 x 12, 10 x 13)	

Documents from the infeed channel

Width	173 mm - 305 mm (1-up)	Height	3 4/6" - 14"
	173 mm - 216 mm (2-up)		
Paper weight	70 - 120 g/m²		

Enclosures

Max. number	9 enclosure feeders	Thickness	0.06 mm - 10 mm
Width	148 mm - 305 mm	Paper weight	60 - 250 g/m²
Height	80 mm - 220 mm	Special formats	on request

Envelope sizes

Width	190 mm - 356 mm	Feeder capacity	approx. 3,100 envelopes
Height	98 mm - 254 mm	Paper weight	60 - 160 g/m²

Max. inserting package

Height	up to 15 mm	Weight	up to 1,000 g

Excellence
through experience

C6→C5
#7 3/4→6 x 9

26,000 env/h

2 mm/0.08"

≥ 1 channel

100,000 sheets/h

7 mm/0.28"

TURBO8G

The eighth generation
represents perfection

Since introducing the first Turbo in 1976, BÖWE SYSTEC has continuously updated and developed its concept. For the design of the eighth generation, the focus was put on the availability of the systems and the controlling of the production process. In line with these market requirements, the eighth generation of Turbo features more than 50 technical improvements. Amid all these innovations, Turbo 8G retains its successful qualities, like gentle handling through vertical transport, shortest set-up times through fully automated job changeovers and modularity – and all this while maintaining the highest level of integrity and a throughput of up to 26,000 or 22,000 envelopes per hour.

The **Turbo inserting concept** guarantees fast, gentle and intelligent processing

Throughput of either up to 26,000 envelopes (Turbo 8G 26k) or 22,000 envelopes per hour (Turbo 8G 22k)

Highly flexible in processing enclosures

Roll feeding of envelopes employing the envelope roller Tornado, specifically developed for the Turbo

Universal **modularity** makes it fit into all locations

BÖWE SYSTEC 2013/2014

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The Turbo inserting concept
Fast, gentle and intelligent processing

Vertical transport of materials ensures secure guiding and fast, precise handling of documents. This process reduces wear and tear on the material, but also on the machine, guaranteeing reliable performance in continuous operation. For Turbo 8G, the transport speeds have been harmonized. This improves continuity of the process and enables the processing of high print volumes within the shortest time. Highest integrity is achieved by utilizing sensors to locate and identify every document within the system.

The new Turbo generation also offers new intelligent features:

> The inserting system adjusts the speed according to the size of the document

> Event-triggered stop function ensures that the system only stops when absolutely necessary

set, e.g. slowing down when processing thicker sets

> User defined tolerance settings allow the diverting of faulty enclosures and envelopes without stopping the system
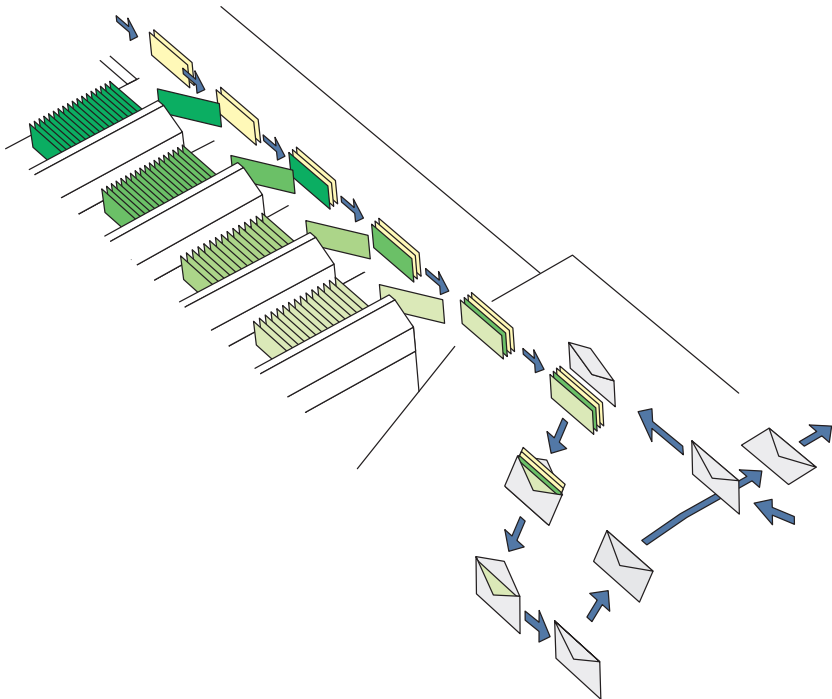
A sophisticated system
## at two different speeds

Turbo 8G offers integrity, flexibility and productivity at the highest level for high volume mail processing. From document infeed to enclosure handling and post-processing, all production steps are perfectly integrated. This remarkable system is available in two performance classes.

One system, two speeds:
At a capacity of up to 26,000 envelopes per hour, the **Turbo 8G 26k** is perfect for single-channel applications and high volume jobs with low page count per envelope.

The competitively priced **Turbo 8G 22k** with a capacity of up to 22,000 envelopes per hour is ideal for complex single- and multi-channel applications or high volume jobs.

In case mailroom requirements change, upgrading the Turbo 8G 22k to 26k is easy.

22,000

env/h

0   26,000
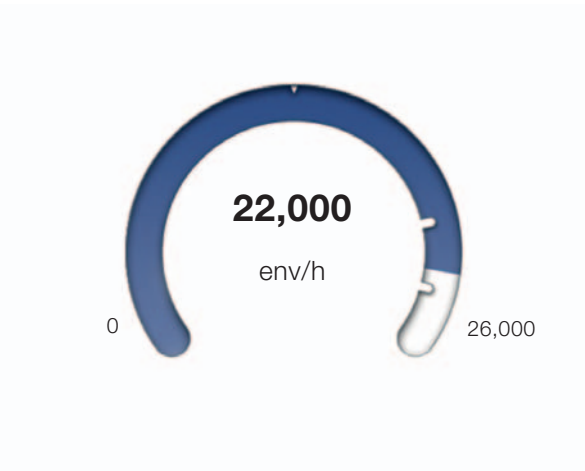
Extraordinary flexibility
in enclosure handling

Enclosure handling is becoming one of the most complex tasks in the mailroom. The challenge being to find a way to handle enclosures made of different materials in the shortest possible time. Frequently varying enclosures or thin, glossy and heavy quality paper are the challenges faced every day. Our solution is the enclosure feeder 5553 with automated and reproducible settings.

Reducing the number of set-up procedures significantly increases the productivity of the whole system. This enclosure feeder comes with a so-called "teach-in" option, measuring thickness and width of the enclosure to be processed at the touch of a button and automatically setting up the feeder accordingly. An important functionality for mailrooms handling a wide range of applications and constantly differing enclosures.

› Enclosure changeover at the touch of a button

› Electronic, self-adjusting thickness control

› All set-up information reproducible
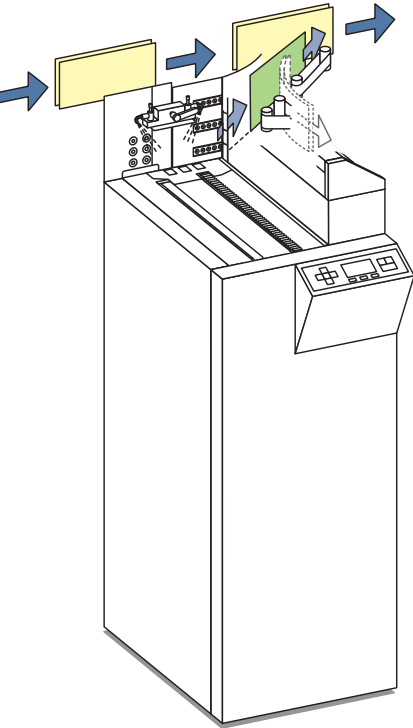
# Tornado envelope unwinder
Efficient roll feeding

The Tornado will streamline the efficiency of any mailroom: Specifically designed for the Turbo 8G series, the unwinder for continuous infeed of envelopes ensures high productivity. The Tornado automatically feeds envelopes into the inserting system in a continuous flow for a prolonged period of time, resulting in reduced operator workload and a clear increase in efficiency in the mailroom.

› High productivity with a maximum speed of up to 24,000 envelopes per hour

› Capacity (per roll) of up to 25,000 envelopes in C5 format or up to 40,000 envelopes in C6/5-, DL formats respectively

› Perfect for higher volume projects with standard envelopes; for custom formats, the envelope feeder remains available

› Automatic envelope infeed reduces operator workload

› Minimizes stock requirements for envelopes

› Installation and retrofitting for Turbo 8G systems possible at any time
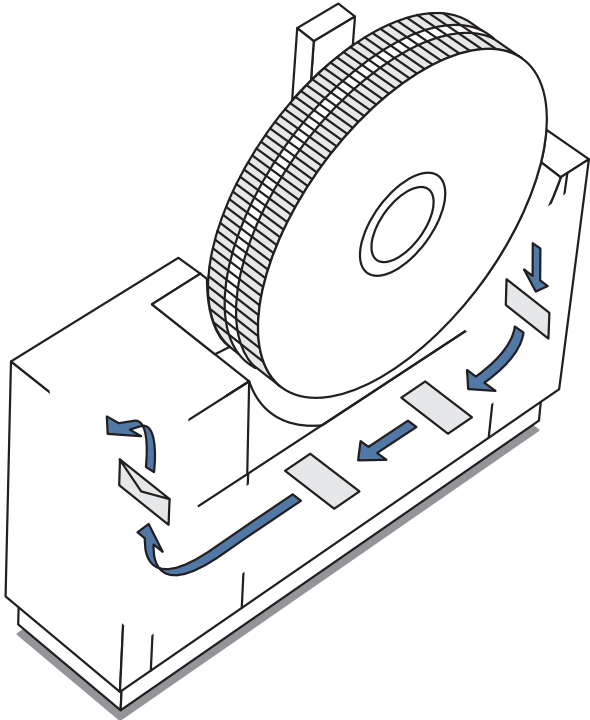
Tailor-made solutions
for every requirement

Highly flexible infeed:
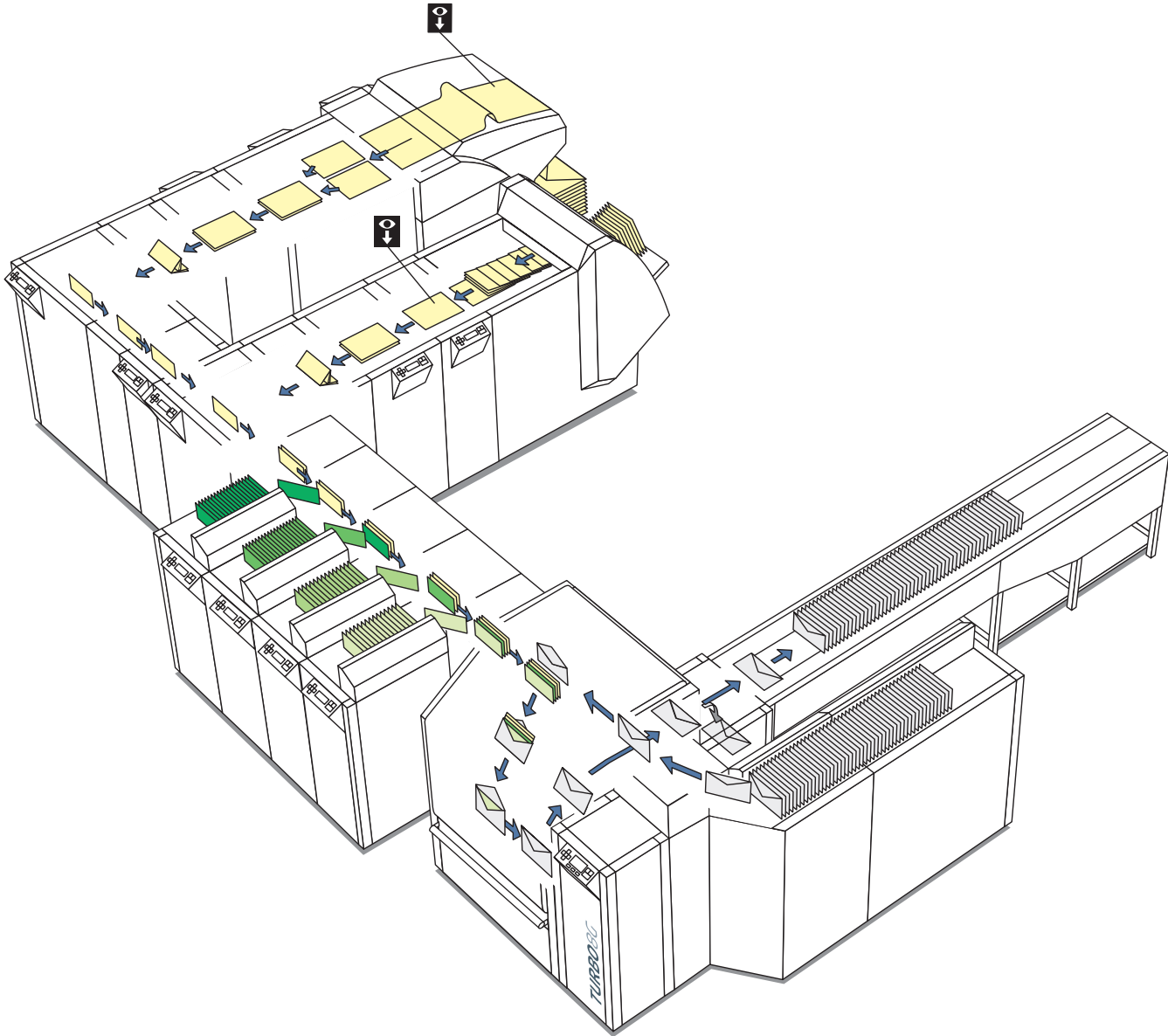
› Infeed channels in various performance classes, including High-Speed Input Channel

› Multi-channel-ready with patented auto-sync

› Free selection and changing of guiding channels

› Continuous or cut-sheet processing

› 1-up and 2-up processing

› Z, C, single, double parallel or cross folds possible

› Assembling before and/or after folding
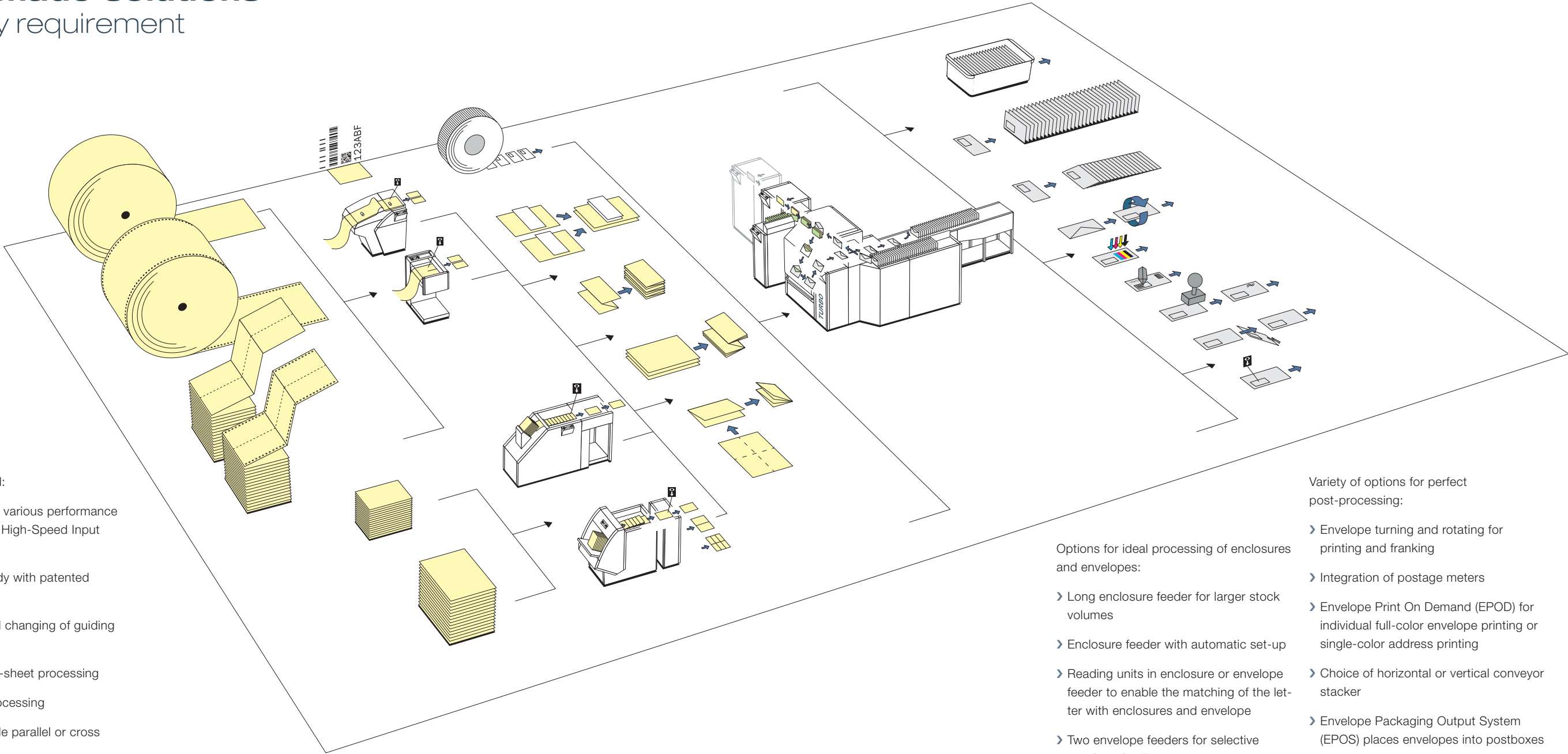
Options for ideal processing of enclosures and envelopes:

› Long enclosure feeder for larger stock volumes

› Enclosure feeder with automatic set-up

› Reading units in enclosure or envelope feeder to enable the matching of the letter with enclosures and envelope

› Two envelope feeders for selective envelope feedings

› Automatic continuous envelope infeed with Tornado envelope unwinder

Variety of options for perfect post-processing:

› Envelope turning and rotating for printing and franking

› Integration of postage meters

› Envelope Print On Demand (EPOD) for individual full-color envelope printing or single-color address printing

› Choice of horizontal or vertical conveyor stacker

› Envelope Packaging Output System (EPOS) places envelopes into postboxes

› Sorting and diverting modules with or without stacking

Technical Data

BÖWE SYSTEC
2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

Max. performance

C6, B6, B6+, DL, C6/5	up to 26,000 env/h	C5	up to 22,000 env/h
#7 3/4, #10		6 x 9	

Documents from the infeed channel

Width	148 mm - 235 mm (1-up)	Height	3.5" - 16"
	148 mm - 220 mm (2-up)		
Paper weight	70 - 160 g/m²		

Enclosures

Max. number	14 feeders		
Width	125 mm - 220 mm	Height	70 mm - 153 mm
Thickness	0.06 mm - 2 mm	Paper weight	60 - 160 g/m²

Envelopes

Width	160 mm - 248 mm	Feeder capacity	approx. 2,700 env.
Height	90 mm - 162 mm	Paper weight	75 - 100 g/m²

Max. inserting package

Height	up to 7 mm

Keep it simple
at high speed

C6→C5
#7 3/4→6 x 9

26,000 env/h

2 mm/0.08"

1 channel

46,000 sheets/h

7 mm/0.28"

TURBOBLACK

Unbeatable speed
Impressively low cost

Small, fast, chic and very attractively priced: Turbo Black. As the smallest and, with speeds of up to 26,000 envelopes per hour, fastest in its class, it is the ideal entry-level machine in the high-performance segment. Because Turbo Black exclusively processes by assembling after folding, it is ideally suited for jobs with low page count. Depending upon the application, Turbo Black is available in four standardized configurations.

Equipped with **standard components** of the mature and market proven **Turbo series,** Turbo Black ensures simple handling and efficient processing with maximum integrity

m²

In spite of the extremely **small footprint** Turbo Black has the capabilities of a high-performance system
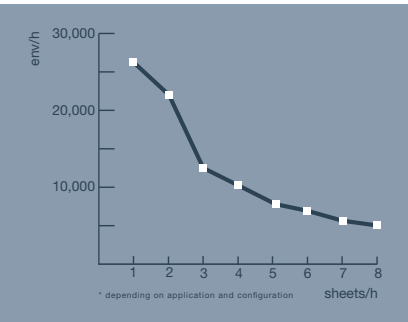
€

The **low investment cost** also makes Turbo Black the perfect solution for small companies

Depending upon the material to be processed, the Turbo Black is available in **four different infeed channel configurations**

Minimization of changeover times and increase of productivity through **BIPS**

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Proven technology
in the smallest space

Equipped with standard components of the mature and proven Turbo series, the Turbo Black combines simple handling and efficient processing – with maximum integrity. Despite its small footprint, Turbo Black has the capabilities of a high-performance system and can handle the majority of applications incurring in a mailroom.

As a special model of the Turbo 8G, the Turbo Black offers the same processing safety and integrity in addition to equally impressive levels of availability, productivity and ease of use. At the same time, Turbo Black concentrates on the essentials and is thereby able to offer smaller companies extremely high levels of performance at an unbeatable price.

Concentrated Power
Moderate investment

With a throughput of up to 26,000 envelopes per hour Turbo Black delivers impressive performance on an extremely small footprint. The standardized concept of the Turbo Black allows for an unbeatable purchase price.

Optimal price-performance ratio:

› Proven Turbo technology

› High-performance inserting system with up to 26,000 envelopes per hour

› With approximately 12 m^2 it has the smallest footprint in comparison with other suppliers

› Processing of continuous forms or cut-sheet paper

› 1-up and 2-up processing

› Ideal for jobs with low page count per envelope

› Assembling after folding

› Upgrade packages for assembling before folding

› Suitable for more complex applications

› Optimal for smaller companies

› Security and integrity within the whole production process

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

High-performance standards
for individualized requirements

Depending on the type of material to be processed, the Turbo Black is available in four standard infeed channel configurations. Then there are four individual enclosure feeders as standard, the powerful inserting module of the latest Turbo 8G as well as the corresponding envelope feeding and stacking components.
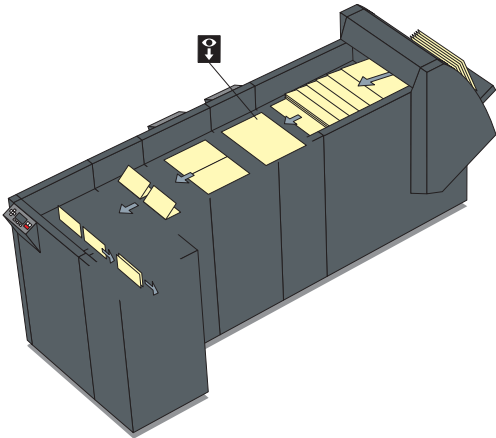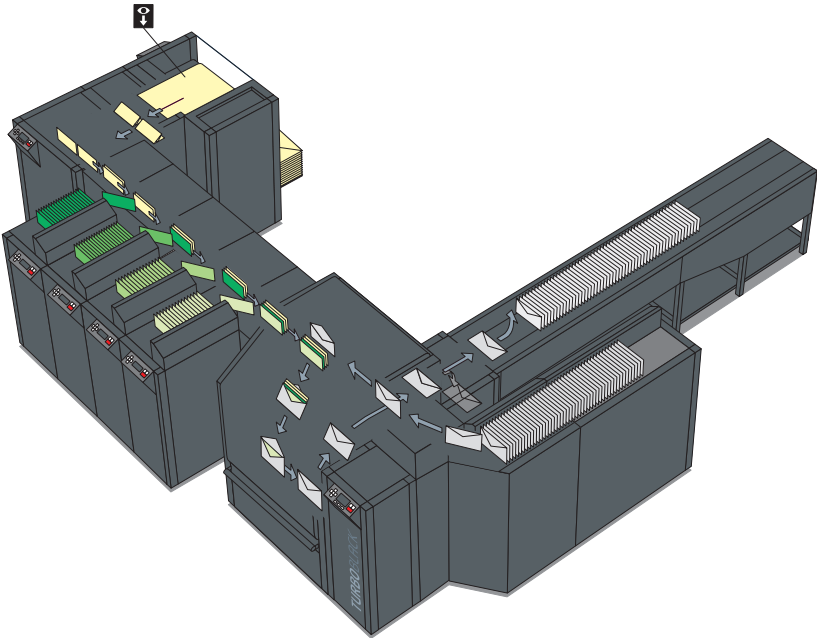
Configuration I:

Documents from the infeed channel

> Continuous forms
> Pinfeed
> 2-up
> Up to 44,000 sheets/h
> Width net: 148 mm - 220 mm (per column - 2-up)
> Height net: 3.5" - 16"
> Paper weight: 70 - 160 g/m^2

Configuration II:

Documents from the infeed channel

> Continuous forms
> Pinless
> 2-up
> Up to 39,000 sheets/h
> Width net: 148 mm - 220 mm (per column - 2-up)
> Height net: 3.5" - 16"
> Paper weight: 70 - 160 g/m^2

Configuration III:
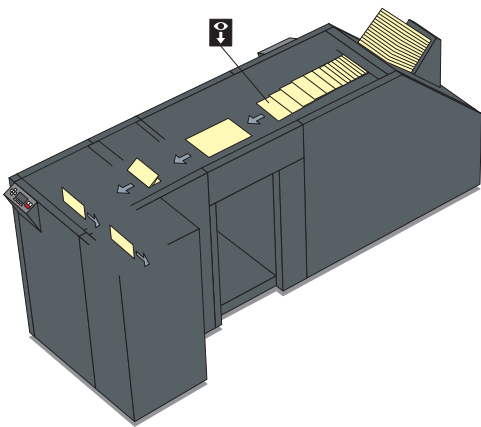
Documents from the infeed channel

> Cut-sheet processing
> 2-up
> Up to 44,000 sheets/h
> Width gross: 210 mm - 430 mm
  Width net: 148 mm - 215 mm (per column - 2-up)
> Height gross: 8" - 14"
 Height net: 4" - 14"
> Paper weight: 70 - 160 g/m^2

Configuration IV:

Documents from the infeed channel

> Cut-sheet processing
> 1-up
> Up to 22,000 sheets/h
> Width: 148 mm - 220 mm (1-up)
> Height: 6" - 14"
> Paper weight: 70 - 160 g/m^2

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service
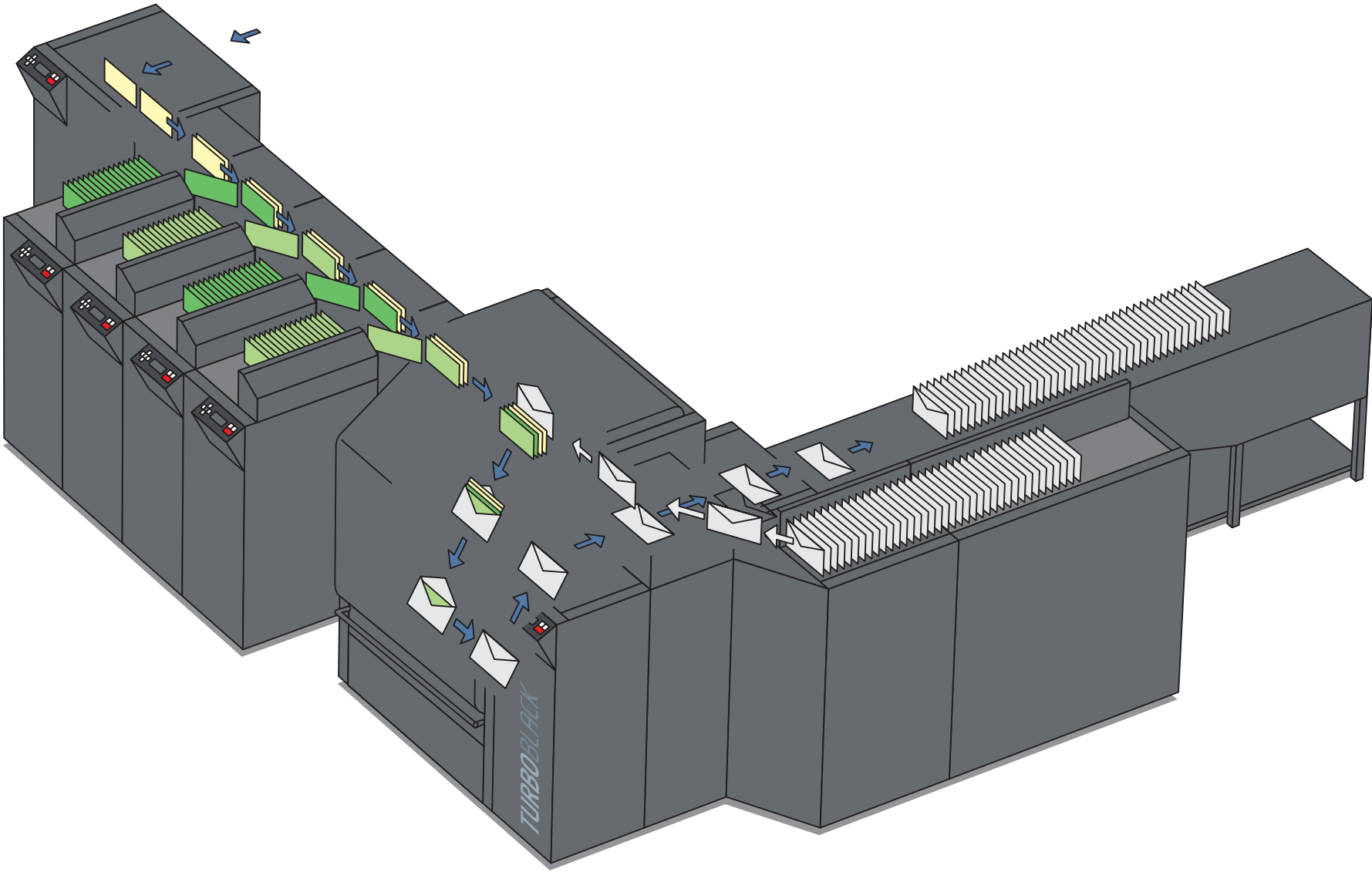
Input variations:

› Four standardized infeed channel
  configurations

› Continuous or cut-sheet processing

› 1-up and 2-up processing

› Double-blade cutting system

› Optional reading in inserting module
  (Barcode, Data Matrix, Vektor lean)

› Z, C, single or double parallel folds
  possible

› Assembling after folding

› Upgrade packages available for
  assembling before folding
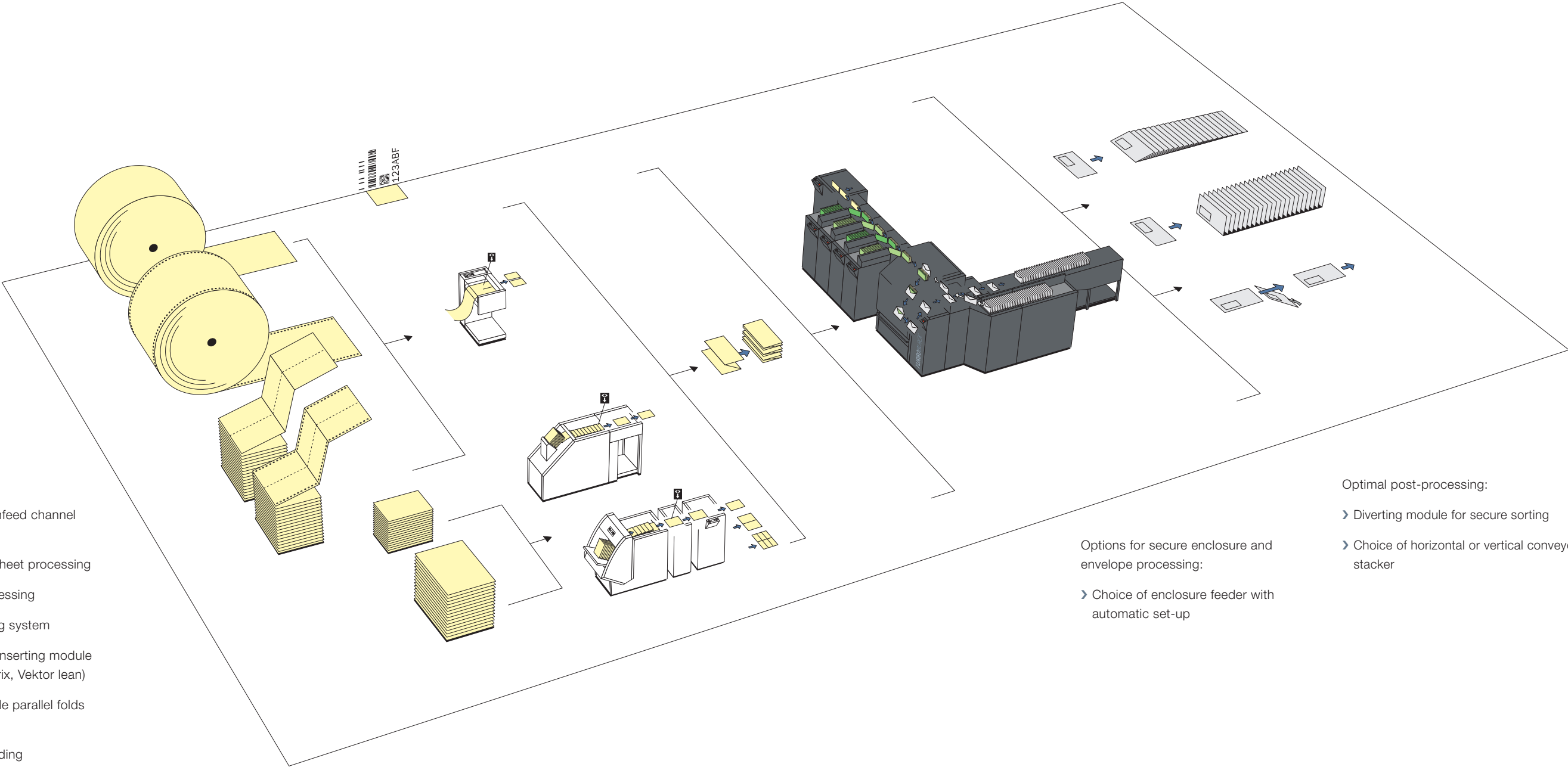
Options for secure enclosure and
envelope processing:

› Choice of enclosure feeder with
  automatic set-up

Optimal post-processing:

› Diverting module for secure sorting

› Choice of horizontal or vertical conveyor
  stacker

BÖWE SYSTEC
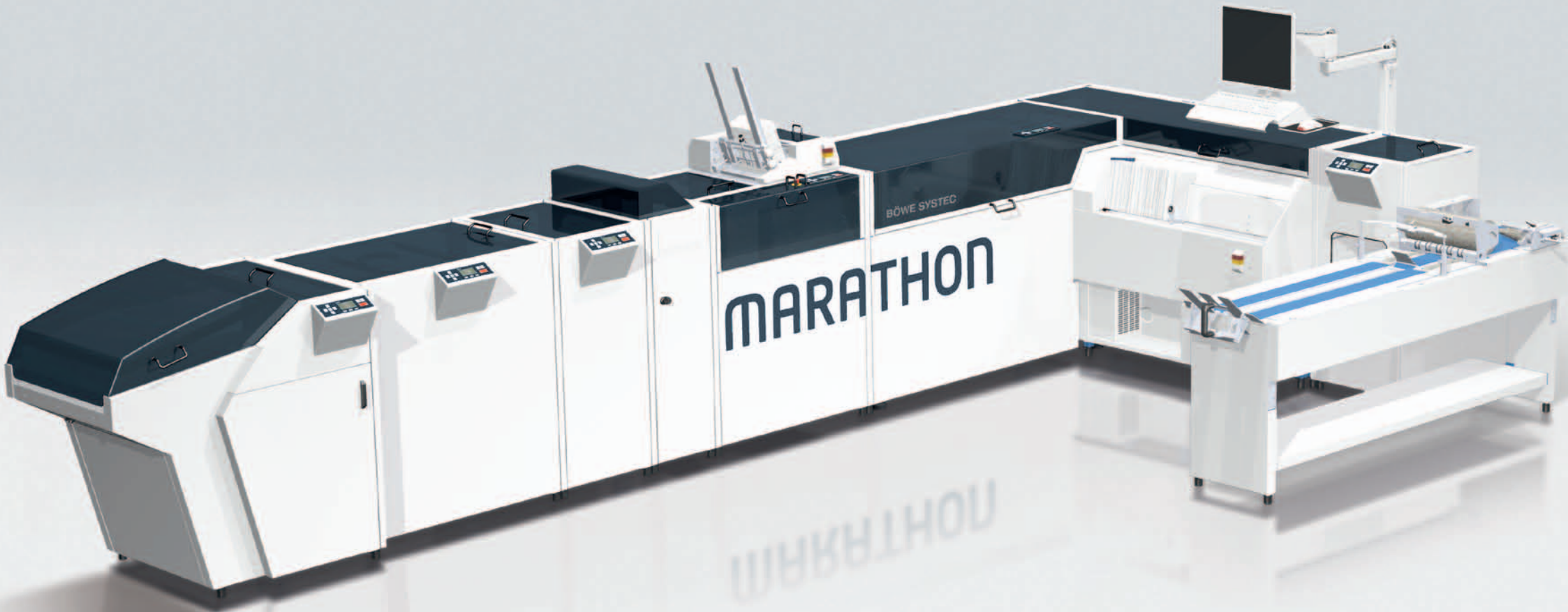2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

Technical Data

Max. performance

| C6, B6, B6+, DL, C6/5 | Config. I - III up to 26,000 env/h | C5, 6 x 9 | up to 22,000 env/h |
| #7 3/4, #10 | Config. IV up to 22,000 env/h | | |

Enclosures

Max. number	14 enclosure feeders		
Width	125 mm - 220 mm	Height	70 mm - 153 mm
Thickness	0.06 mm - 2 mm	Paper weight	60 - 160 g/m²

Envelopes

| Width | 160 mm - 248 mm | Feeder capacity | approx. 2,700 envelopes |
| Height | 90 mm - 162 mm | Paper weight | 75 - 100 g/m² |

Max. inserting package

| Height | up to 7 mm |

The reliable all-rounder
in the high-performance range

C6→B5
#7 3/4→6 x 9

20,000 env/h

8 mm/0.31"

≥ 1 channel

100,000 sheets/h

12 mm/0.47"

MARATHON

BÖWE SYSTEC
2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

Outstanding flexibility
for solving complex tasks

Maximum production capacity, high availability, an extremely broad spectrum of documents and enclosures with minimal effort in set-up and the highest integrity – these are the current demands on high-performance inserting systems. Our answer: Marathon.

Processing that is exceedingly fast and gentle on materials

Maximum integrity for secure and reliable handling

Broadest filling thickness capacity in the upper performance segment

Highest flexibility in processing the most diverse range of enclosures

Thanks to its **modular design**, Marathon provides a diverse range of options

Minimal operator effort and easy access to components

Fast and gentle processing
## with maximum integrity

Fast, exceptionally secure and gentle processing are the qualities that make Marathon the most reliable inserting system in the high-performance segment. The inserting all-rounder flexibly processes the most diverse enclosures with filling thicknesses of up to 12 mm. With a maximum output of up to 20,000 envelopes per hour, the intelligent features and cutting-edge technology ensure maximum integrity throughout the entire process.

During transportation the enclosures are protected on all sides. Guiding elements ensure that all mailpieces are inserted securely into the envelopes.

With its exceedingly light and at the same time robust carbon filling fingers, the state-of-the-art envelope lift ensures an optimal, smooth workflow.

Photocells in all of the components monitor the paper flow continually and ensure secure document tracking.
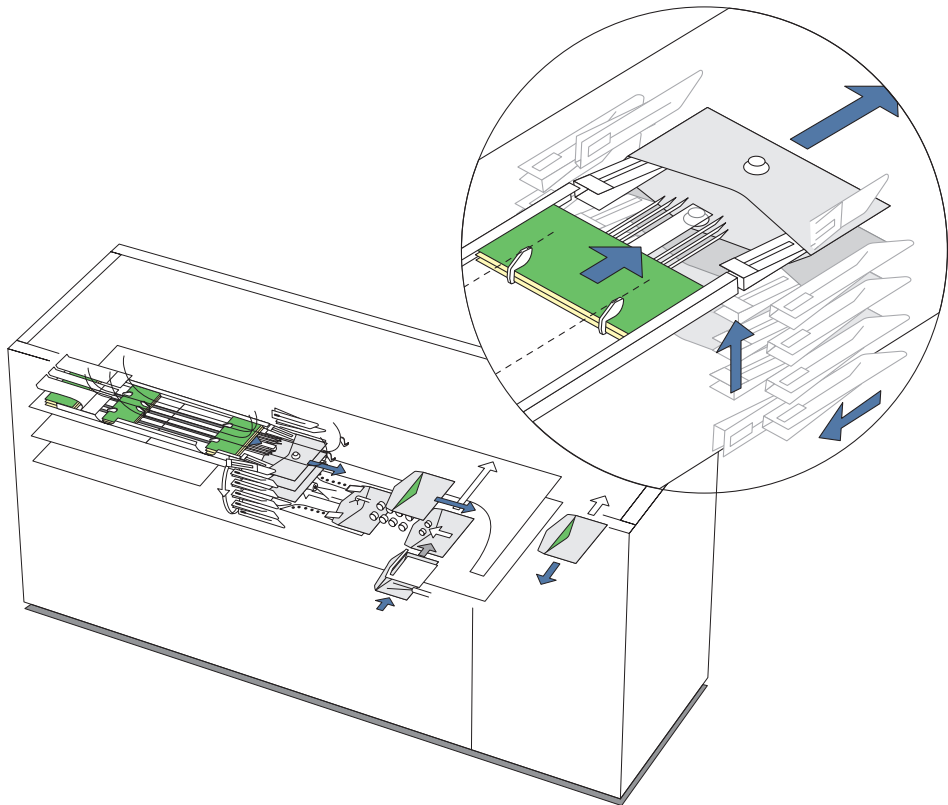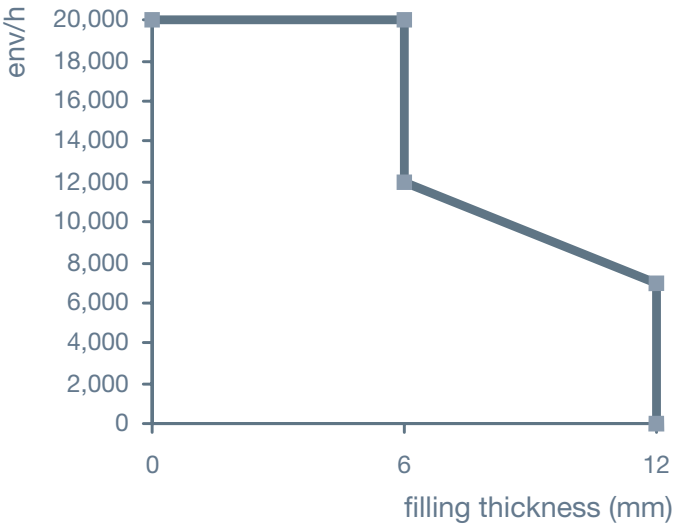
Widest filling thickness range
with highest output

Marathon delivers the highest output with up to 20,000 envelopes per hour while filling the envelopes to a varying degree.

The Marathon high-performance inserting system distinguishes itself by its impressive filling technique which enables a filling thickness of up to 12 mm. Intelligent inner components and state-of-the-art electronics ensure maximum processing security.

› Variable filling thickness up to 12 mm or 20 sheets/envelope for C5

› Extremely high filling thickness may enable the usage of B5 instead of C4

› Throughput up to 20,000 envelopes per hour at filling thickness of up to 6 mm

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Highest enclosure flexibility
with maximum processing security

With Marathon, BÖWE SYSTEC offers a high-performance inserting system capable of processing the most diverse applications and materials – without unnecessary system stops or long changeover times. No matter if thick, thin, folded, rigid or smooth: Marathon has the right feeder for every enclosure.
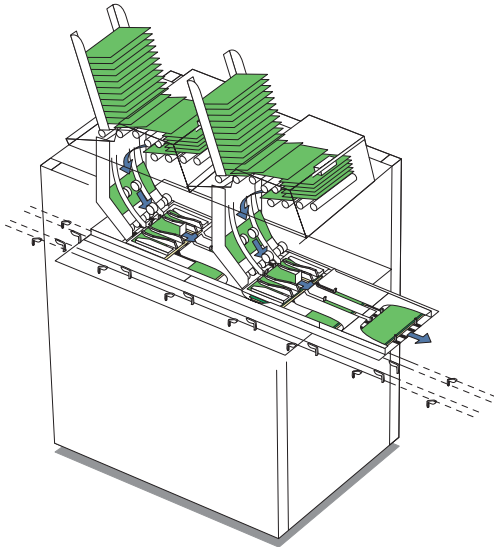
∞

The different feeder types make secure handling of all common enclosure types possible, regardless of type of fold, format or thickness. The high capacity of all feeders ensures highest operator friendliness and productivity.
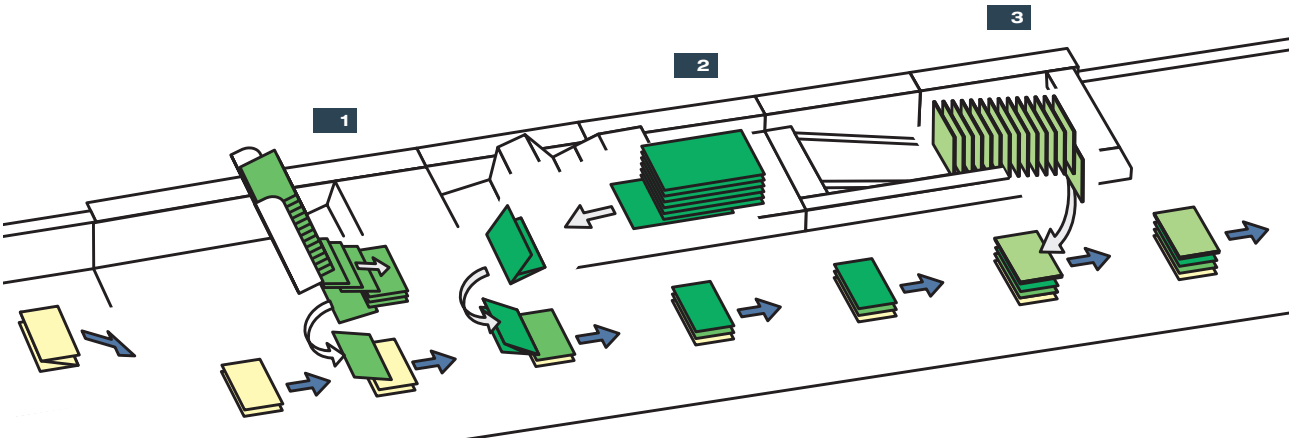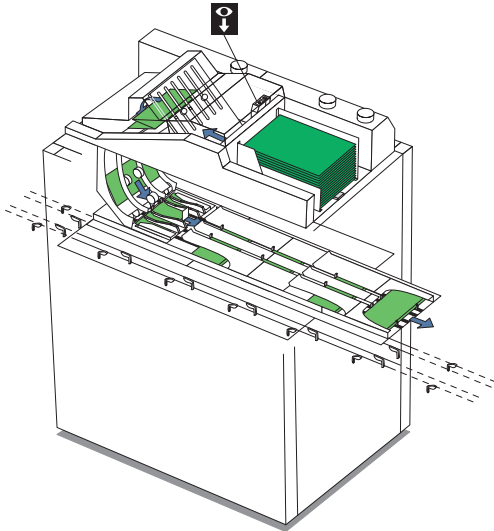
1 Standard feeder

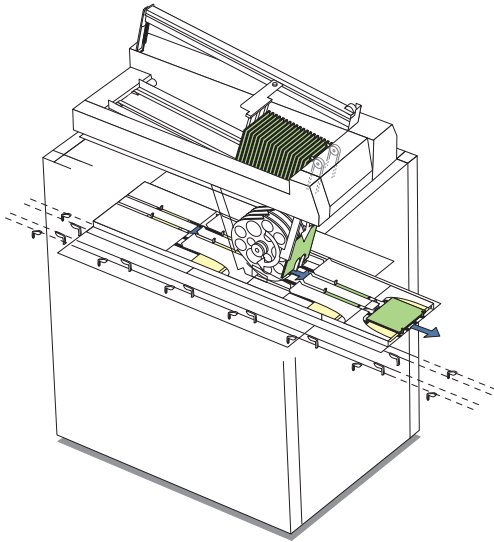› For envelope-size enclosures independent of fold (Z, C fold etc.)

2 Intelligent folding feeder

› For unfolded, personalized enclosures (stacking capability up to 1,000 sheets)
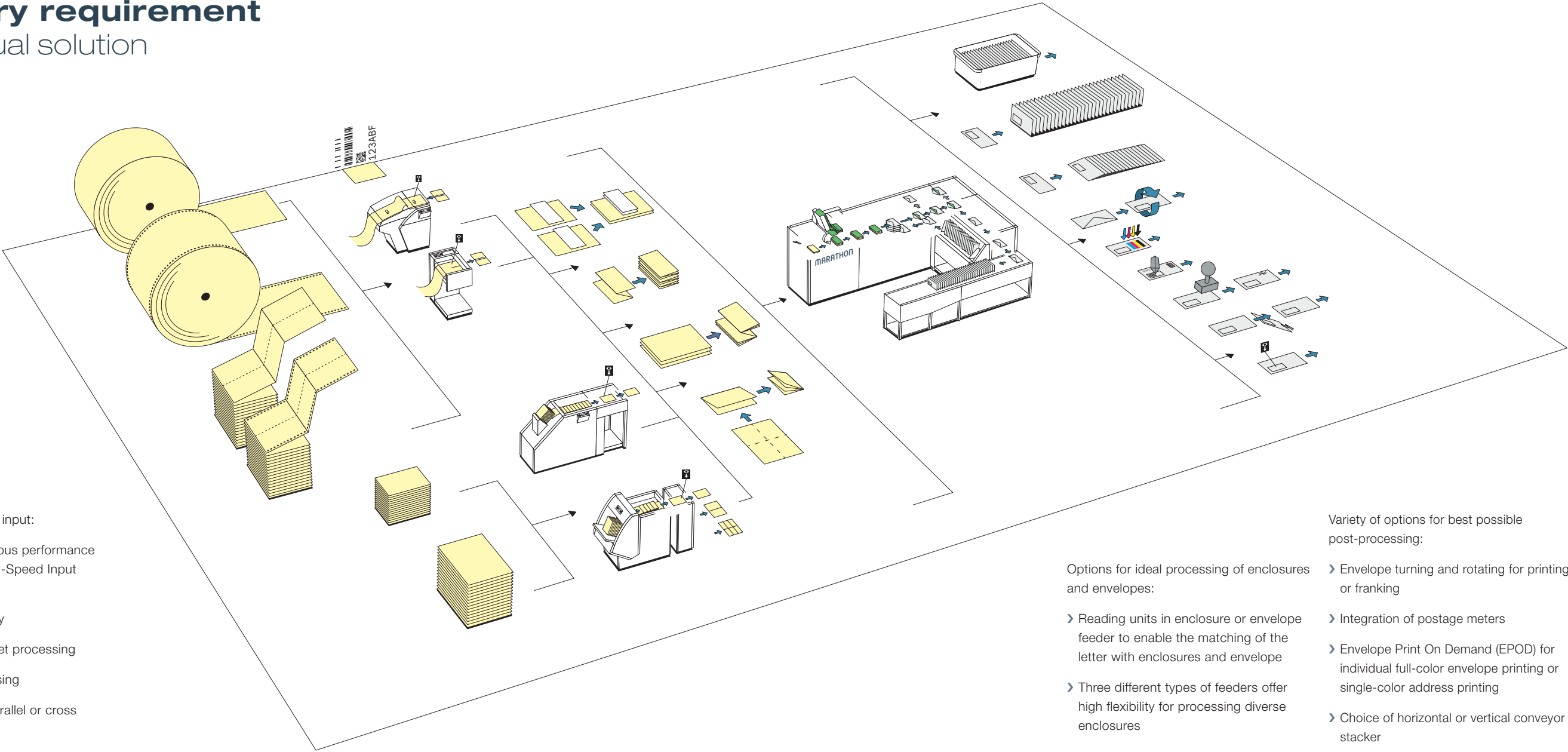
› Optional reading unit

3 Booklet feeder

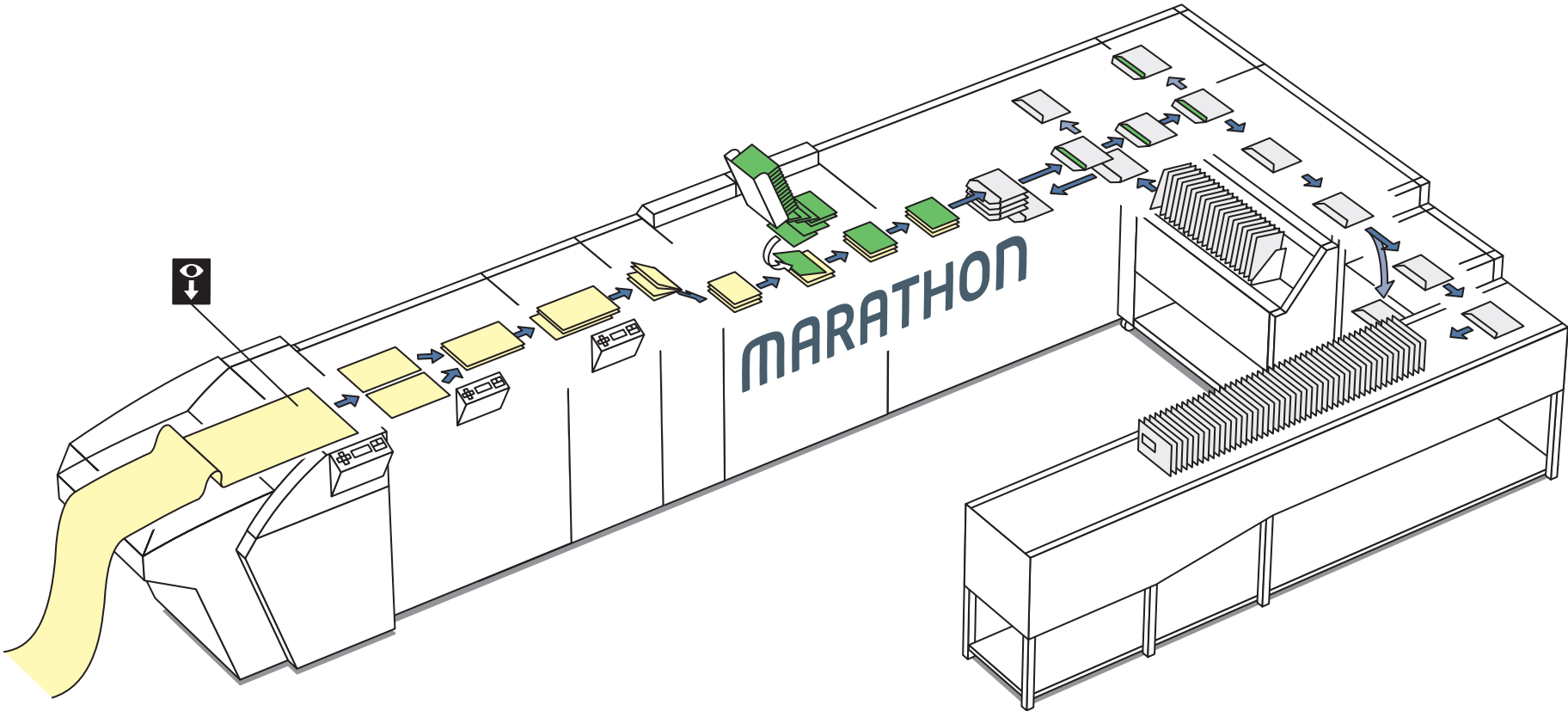› For enclosures with up to 6 mm thickness, e.g. thicker booklets or CDs

For every requirement
an individual solution

Highly flexible document input:

› Infeed channels in various performance
  classes, including High-Speed Input
  Channel

› Multi-channel capability

› Continuous or cut-sheet processing

› 1-up and 2-up processing

› Z, C, single, double parallel or cross
  folds possible

› Assembling before and/or after folding

› Folding enclosure feeder to be used as
  an intelligent infeed channel

Options for ideal processing of enclosures
and envelopes:

› Reading units in enclosure or envelope
  feeder to enable the matching of the
  letter with enclosures and envelope

› Three different types of feeders offer
  high flexibility for processing diverse
  enclosures

Variety of options for best possible
post-processing:

› Envelope turning and rotating for printing
  or franking

› Integration of postage meters

› Envelope Print On Demand (EPOD) for
  individual full-color envelope printing or
  single-color address printing

› Choice of horizontal or vertical conveyor
  stacker

› Sorting module

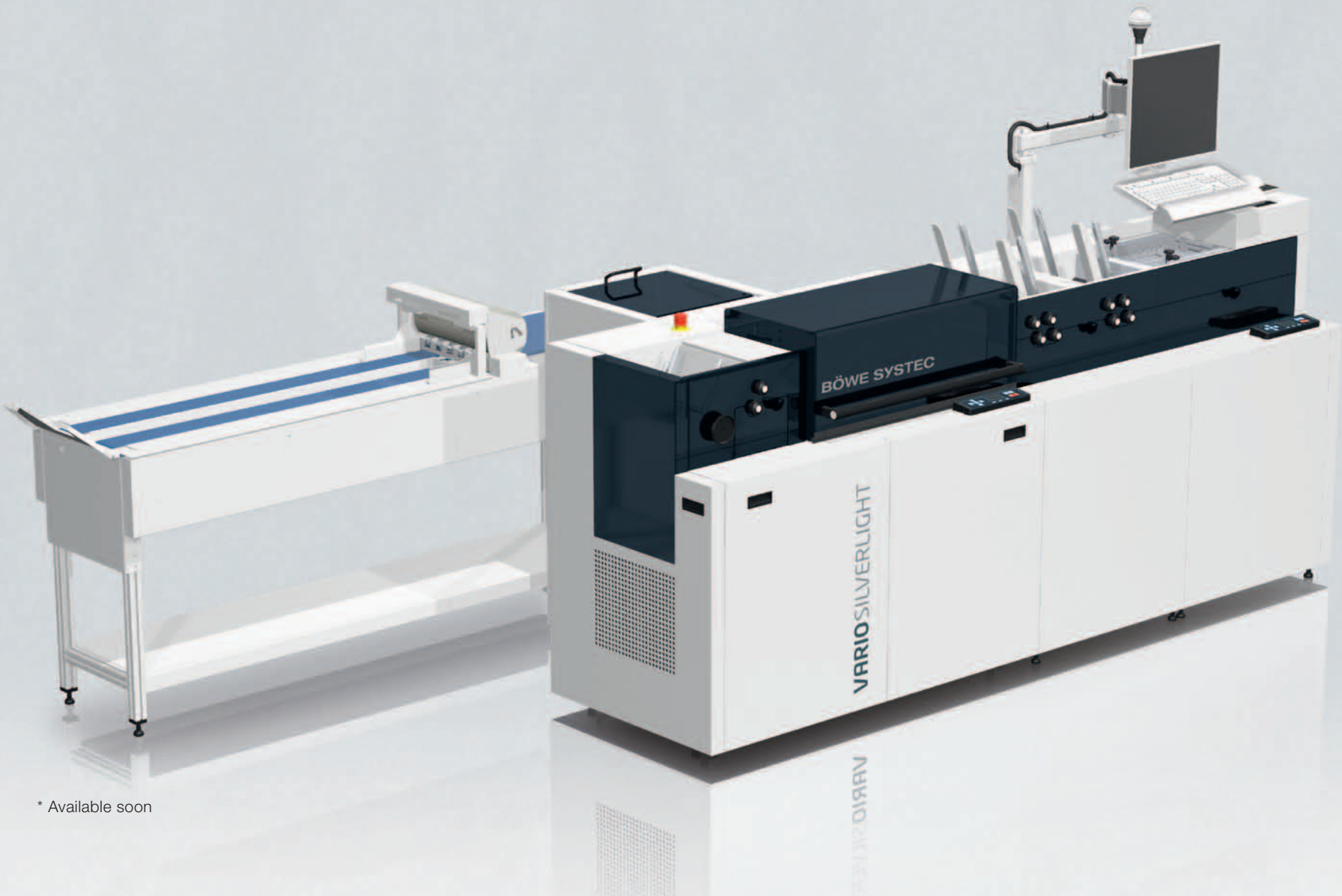› Envelope Packaging Output System
  (EPOS) places envelopes into postboxes

Technical Data

BÖWE SYSTEC
2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

Max. performance

C6, B6, B6+, DL, C6/5, C5, B5	up to 20,000 env/h
#7 3/4, #10, 6 x 9	

Documents from the infeed channel

Width net	173 mm - 216 mm (per column - 2-up)	Height	4" - 14"
Paper weight	70 - 120 g/m²		

Enclosures

Standard feeder

Max. number	9 enclosure feeders	Height	80 mm - 162 mm
Width	100 mm - 230 mm	Thickness	up to 8 mm

Folding feeder

Max. number	4 enclosure feeders	Height	100 mm - 305 mm
Width	130 mm - 216 mm	Thickness	cut-sheet up to 160 g/m²

Booklet feeder

Max. number	4 enclosure feeders	Height	80 mm - 162 mm
Width	130 mm - 230 mm	Thickness	2 - 6 mm

Envelopes

Width	162 mm - 250 mm	Feeder capacity	approx. 2,000 envelopes
Height	90 mm - 176 mm	Paper weight	80 - 110 g/m²

Max. inserting package

Height	up to 12 mm

A real giant
in the smallest possible space

* Available soon

BÖWE SYSTEC
2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

C6→B5
#7 3/4→6 x 9

8,200 env/h

**10 mm/0.4"**

1 channel

37,500 sheets/h

10 mm/0.4"

VARIOSILVERLIGHT

The dependable partner
for mid-sized production volumes

Stable production at an unbeatable price: Vario Silverlight delivers on both counts.
Four powerful standard versions with a modern, compact design make
Vario Silverlight the ideal entry-level machine for the mid-performance segment.
With a throughput of up to 8,200 envelopes per hour, it processes the most
diverse applications securely and reliably – offering a particularly high level of
flexibility in enclosure processing.
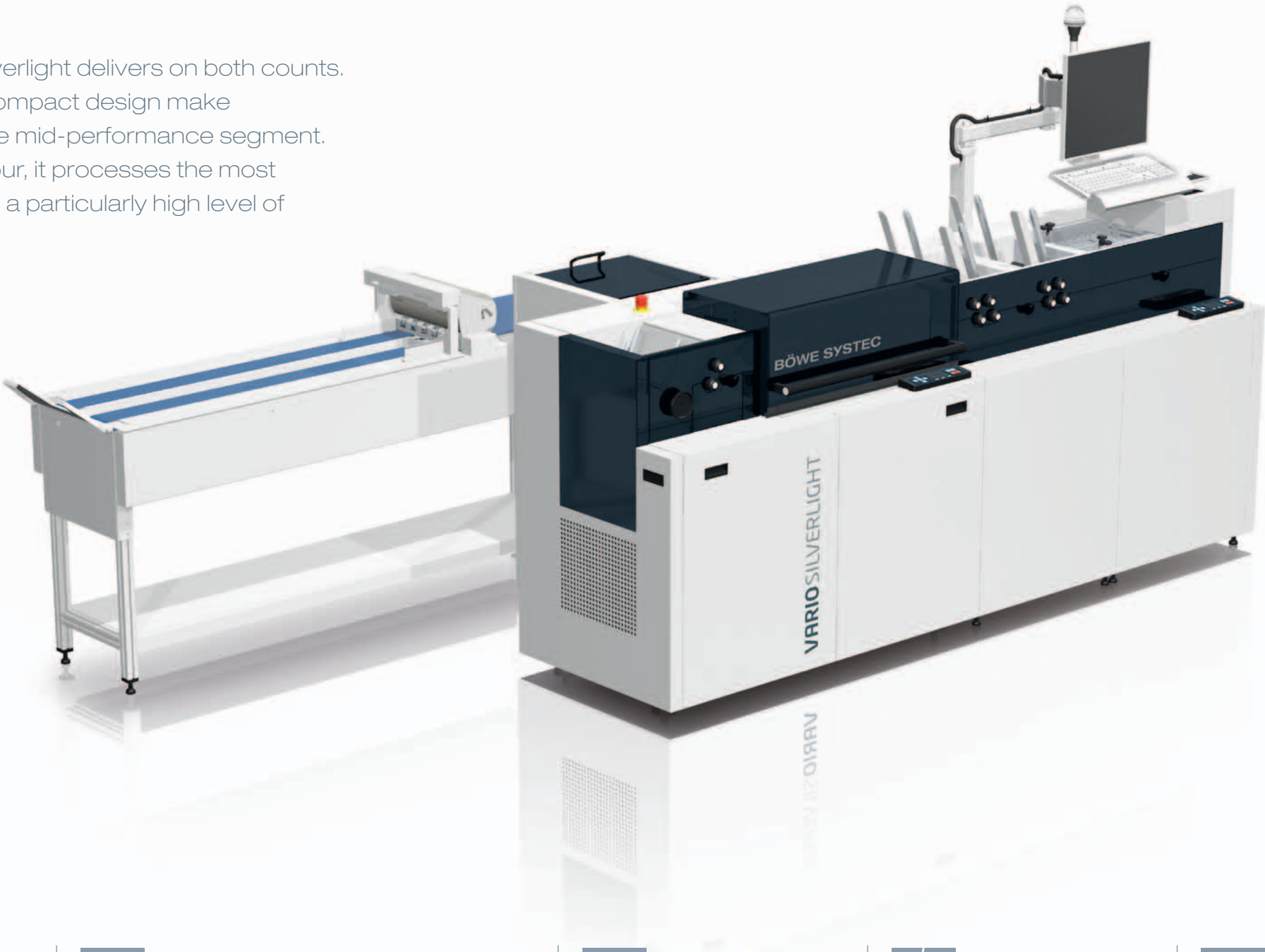
Equipped with **standard components of the proven Vario inserting system**, Vario Silverlight offers the greatest possible reliability with maximum integrity

An extremely **attractive price-per-formance ratio** makes Vario Silverlight a good option for smaller companies

High **flexibility** in processing different enclosures

The **highest integrity** from infeed to stacking

The standard configuration of Vario Silverlight comes with **four different infeed channel variations** that can be selected according to the application

With its **compact configuration**, Vario Silverlight also fits into locations with space constraints

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Secure processing
and maximum integrity

Depending on the material, Vario Silverlight can be configured with four different infeed channels to process applications reliably and securely. With an infinitely variable speed control, Vario Silverlight processes the widest variety of materials at a throughput of up to 8,200 envelopes per hour and with a filling thickness of up to 10 mm. State-of-the-art reading technologies and continuous material tracking ensure maximum security throughout the whole inserting process.

The sophisticated processing concept of Vario Silverlight enables a secure filling of envelopes. Grippers secure the envelope during transport. While the envelope is opened by blow air, guide elements ensure that each letter is transported securely into the designated envelope.
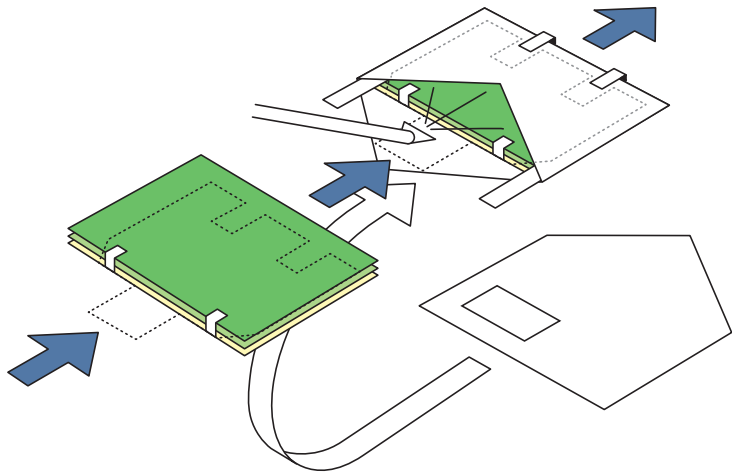
Maximum flexibility
in enclosure processing

Despite its compact design, Vario Silverlight can handle a diverse range of applications. Four different enclosure feeders enable the processing of various materials with thicknesses up to 10 mm.

Whether thin, thick, rough, smooth, folded or unfolded: With the possibility to choose between suction, friction, booklet and folding feeder, Vario Silverlight has the right one for every enclosure. The new friction feeder, for example, opens up completely new possibilities: Even difficult enclosures such as Z folded or air permeable material can easily be processed. The friction feeder is easy to maintain and has a high stacking capacity of up to 590 mm. This makes it extremely user-friendly and boosts production efficiency.
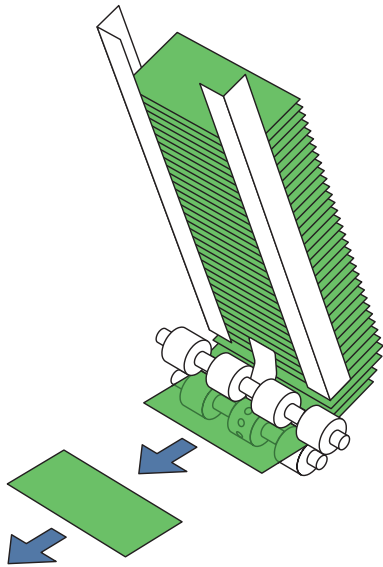
Powerful standard versions
for high demands

Depending on the application, Vario Silverlight is available with four different infeed channels. In addition, the standard configuration of this inserting system comes with two enclosure feeders, a diverting module, the Vario series inserting module as well as the corresponding envelope feeding and stacking components.

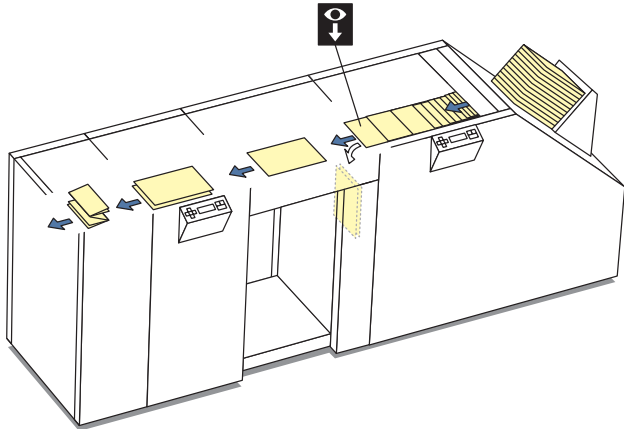**Configuration I:**

Documents from the infeed channel

> Cut-sheet processing
> 1-up
> Up to 10,000 sheets/h
> Width: 125 mm - 230 mm
> Height: 3.15" - 12.52"
> Paper weight: 70 - 180 g/m^2
> Optional: Riso printer can be integrated online
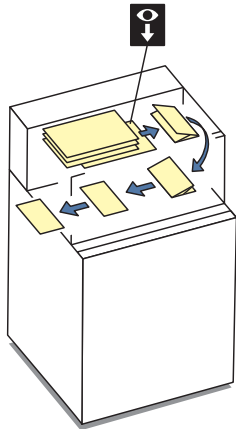
Configuration II:

Documents from the infeed channel

> Cut-sheet processing
> 1-up
> Up to 28,000 sheets/h
> Width: 165 mm - 230 mm
> Height: 8" - 14"
> Paper weight: 70 - 120 g/m^2

Configuration III:

Documents from the infeed channel

> Continuous forms
> Pinfeed
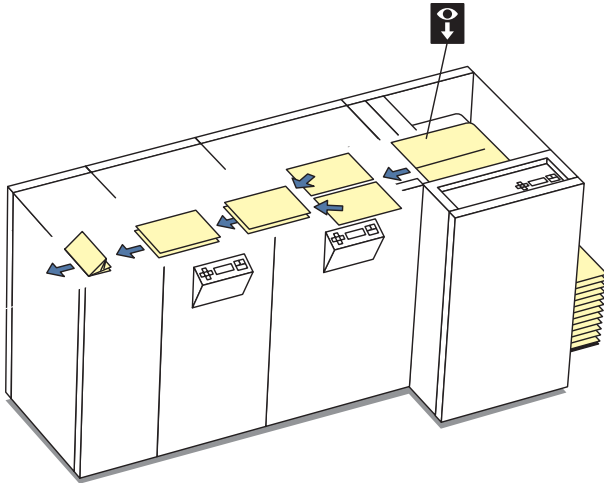> 1-up
> Up to 19,000 sheets/h
> Width net: 165 mm - 230 mm
> Height net: 8" - 14"
> Paper weight: 60 - 120 g/m^2
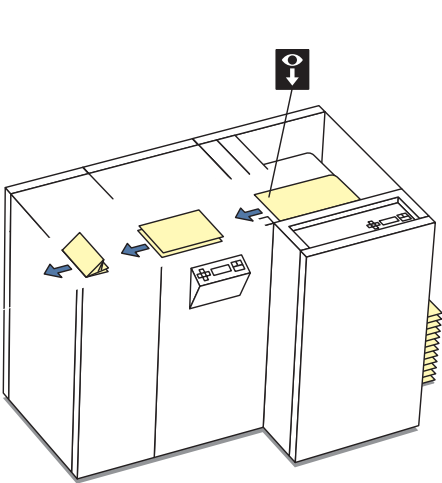
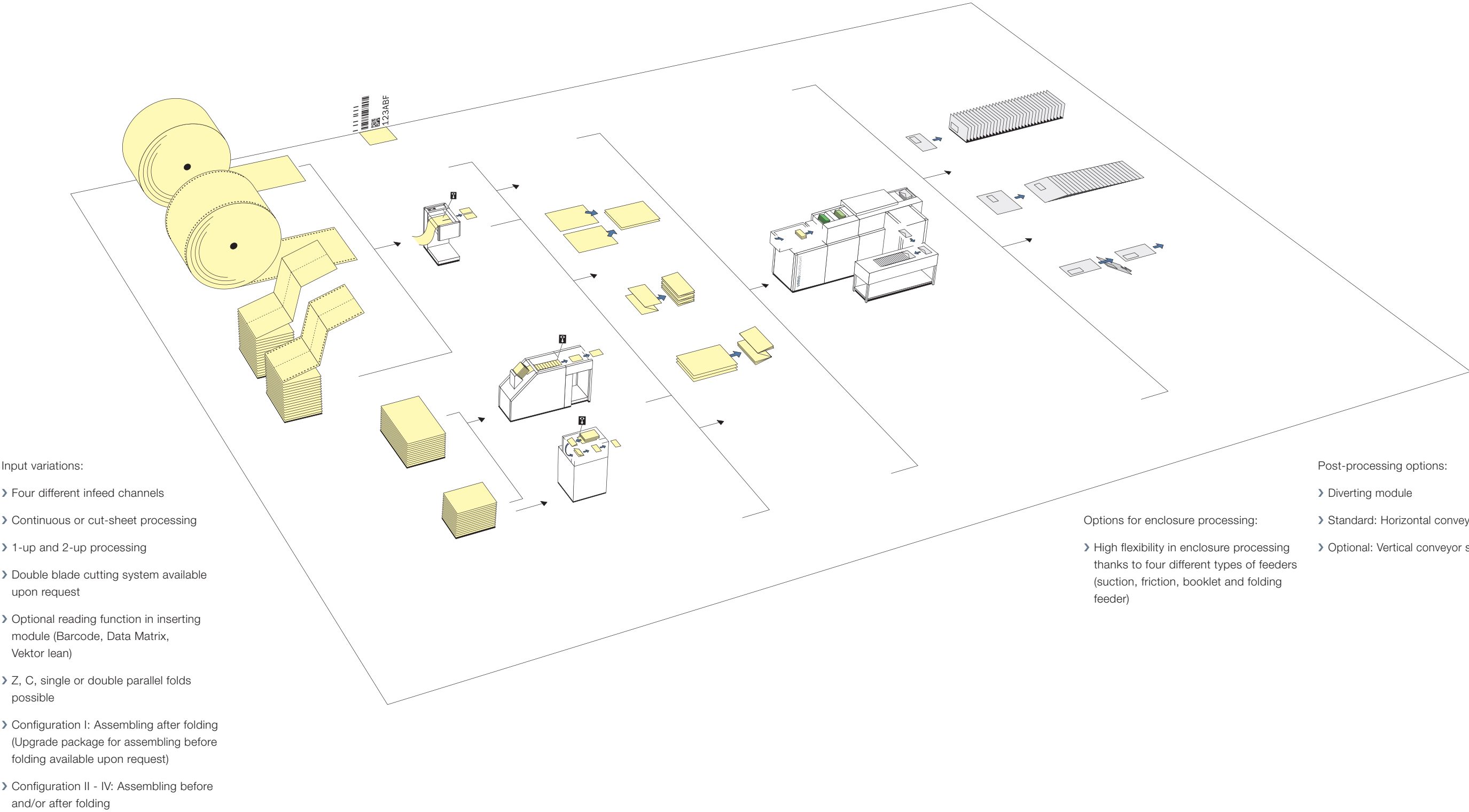**Configuration IV:**

Documents from the infeed channel

> Continuous forms
> Pinfeed
> 2-up
> Up to 37,500 sheets/h
> Width net: 165 mm - 216 mm (per column - 2-up)
> Height net: 8" - 12"/14" optional
> Paper weight: 70 - 120 g/m^2

Input variations:

❯ Four different infeed channels

❯ Continuous or cut-sheet processing

❯ 1-up and 2-up processing

❯ Double blade cutting system available
  upon request

❯ Optional reading function in inserting
  module (Barcode, Data Matrix,
  Vektor lean)

❯ Z, C, single or double parallel folds
  possible

❯ Configuration I: Assembling after folding
  (Upgrade package for assembling before
  folding available upon request)

❯ Configuration II - IV: Assembling before
  and/or after folding

Options for enclosure processing:

❯ High flexibility in enclosure processing
  thanks to four different types of feeders
  (suction, friction, booklet and folding
  feeder)

Post-processing options:

❯ Diverting module

❯ Standard: Horizontal conveyor stacker

❯ Optional: Vertical conveyor stacker

Technical Data

Max. performance

C6, B6, B6+, DL, C6/5, C5, B5	8,200 env/h
#7 3/4, #10, 6 x 9	

Enclosures

Max. number	12 feeders		
Width	100 mm - 230 mm	Height	80 mm - 162 mm
Thickness	up to 10 mm	Paper weight	60 - 180 g/m²

Envelopes

Width	140 mm - 250 mm	Feeder capacity	approx. 300 env.
Height	90 mm - 180 mm	Paper weight	65 - 110 g/m²

Max. inserting package

Height	up to 10 mm

Product portfolio
Card Logistics and Mailing

|	Max. performance cards/h	Cut-sheet	Continuous	Form width	Form height	Paper weight	Folding types				
							Single fold	Z fold	C fold	Cross fold	Double parallel fold
Cardcube	4,000	●		210 - 216 mm	279 - 305 mm	60 - 120 g/m²	●	●	●		
Pace	9,000	●	○	120 - 295 mm	102 - 356 mm	60 - 160 g/m²	●	●	○	○	○

	Card feeding			Mass storage Watermill	Pre-cut labels	Label cut from a roll	Card parking in attaching unit	Shredder in attaching unit	Cards per carrier	Enclosures
	serial	parallel	selective							
Cardcube	●	●	○	○		●		●	●	up to 4 cards	●
Pace	●	●	○	○	●	○				up to 6 cards	●

● Standard
○ Option

Card Logistics and Mailing

Cardcube	84
Pace	100
Watermill	116

The innovation
in card mailing

h: 11" - 12"
w: 210 - 216 mm
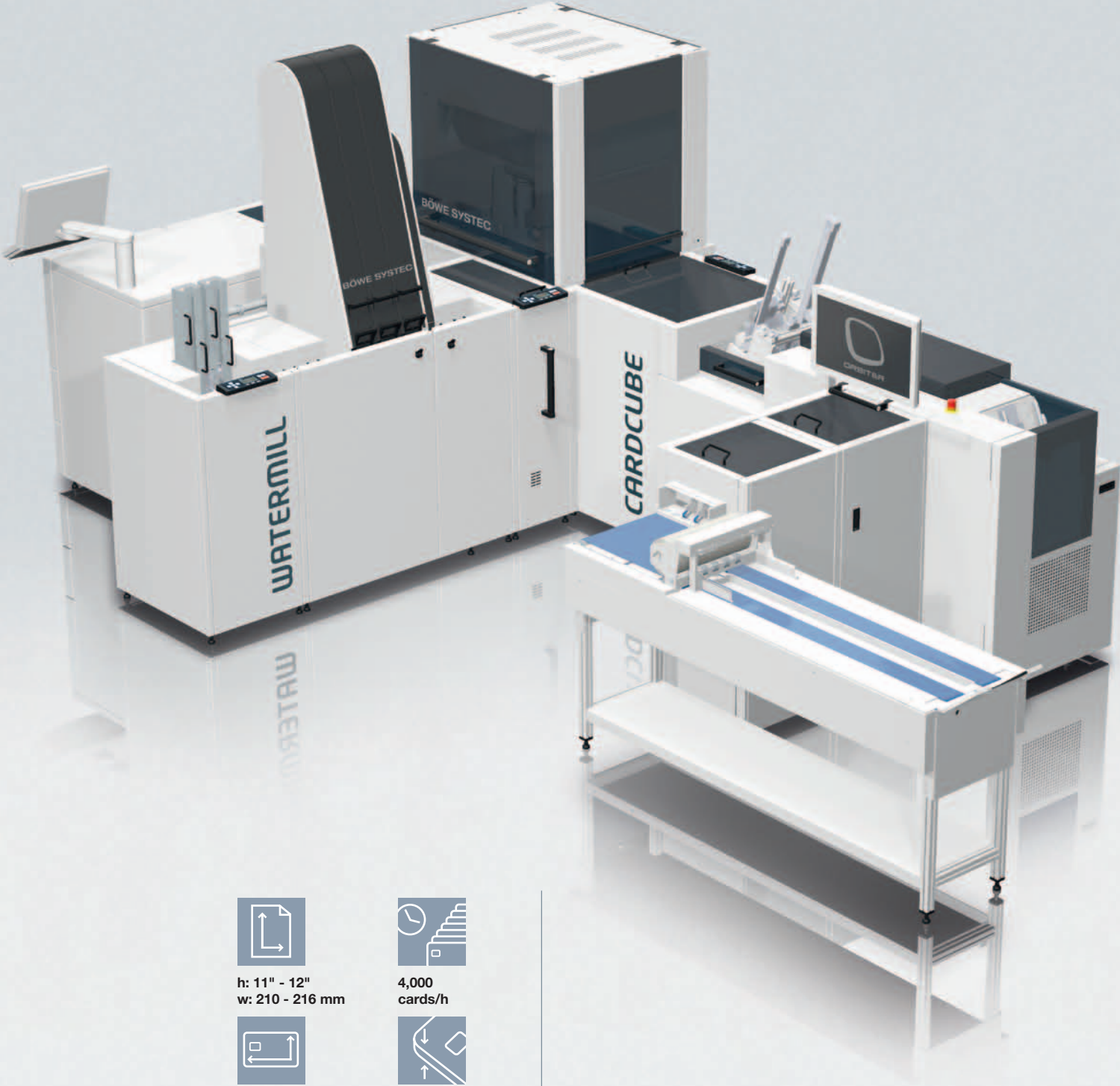
4,000
cards/h

85.60 x 53.98 mm
3 3/8" x 2 1/8"

1.2 mm/0.05"

0 - 4 cards
**per document**

clever
features

CARDCUBE

Smart solutions
for 100 percent integrity

BÖWE SYSTEC card mailing systems are well-known for their indisputable reliability when it comes to processing personalized plastic cards. With the new card mailing system Cardcube, another innovative product has been added to the current portfolio. With a performance of up to 4,000 cards per hour, Cardcube is ideally suited for medium-sized production volumes. This compact system offers innovative and smart solutions to face existing and new challenges in card processing on the smallest possible footprint. Cardcube utilizes a newly designed folding unit that prevents imprints of an embossed card appearing on the document and comes with a special feature: A robot attaches up to four plastic cards in any orientation – thus providing new levels of flexibility in card application. Cardcube shares the same 100 percent integrity throughout its processes as the established card mailing system Pace.
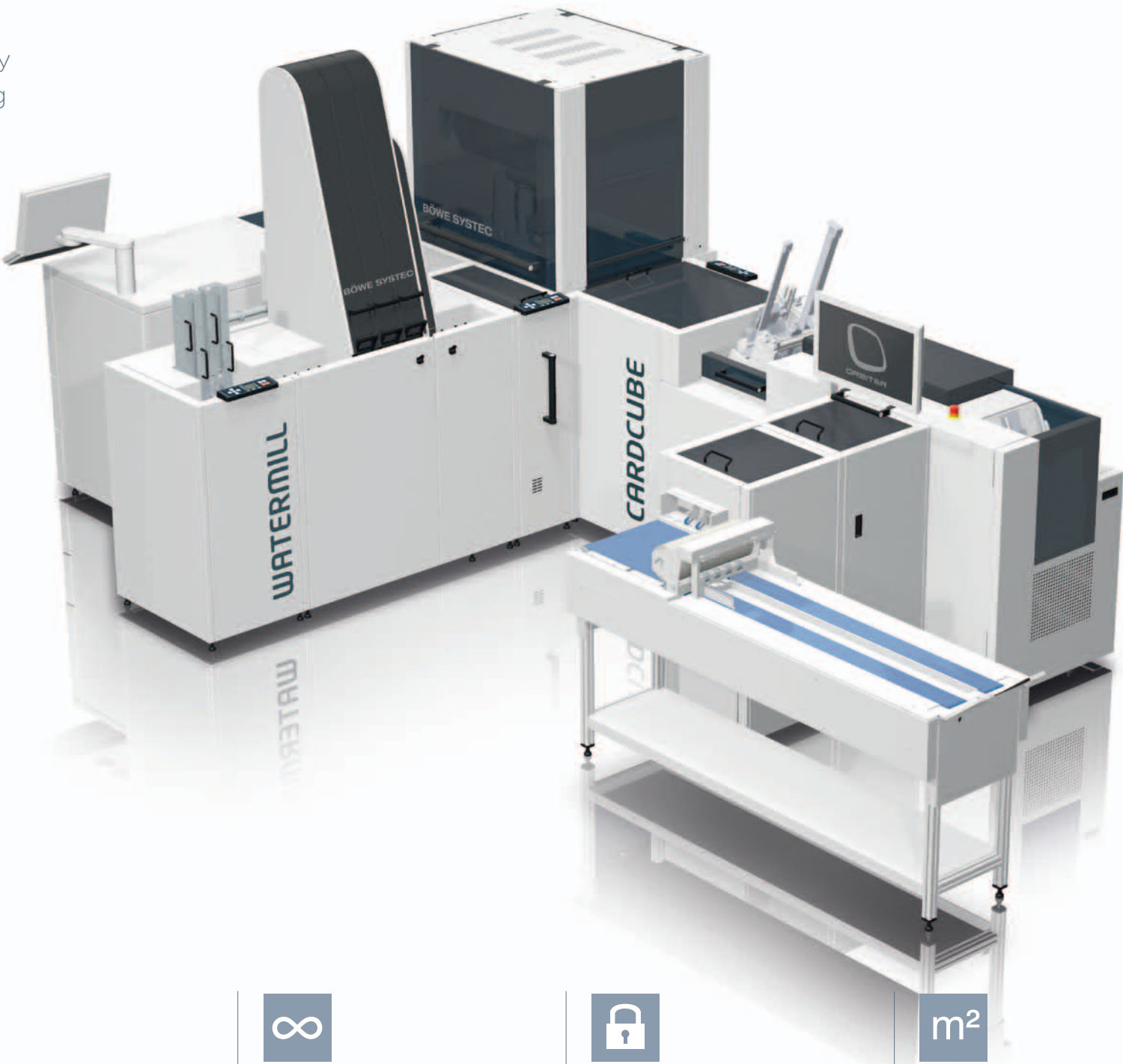
Cardcube offers a professional solution for every **card mailing application**

Enables **White Paper Factory solution** for card mailing through optional integration of monochrome or color printer

Flexible attaching station and new flap folding unit for **more productivity** in card mailing

The card channel and the **robot attaching station** form Cardcube's technology center

Intelligent reading technology and Watermill card storage unit for the **highest integrity**

The **compact system** fits into the smallest facilities

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Flexible solutions
for individual needs

Processing up to 4,000 cards per hour, Cardcube is the ideal system for medium sized production volumes. Its modular design allows for customized solutions to meet individual requirements in card mailing – from basic to the most complex applications, with 100 percent integrity.

Highly flexible infeed:

> Multi-channel ready

> Cut-sheet processing

> Processing of pre-printed documents or optional integration of a monochrome or color printer

> Assembling before card attaching and folding (up to two sheets)
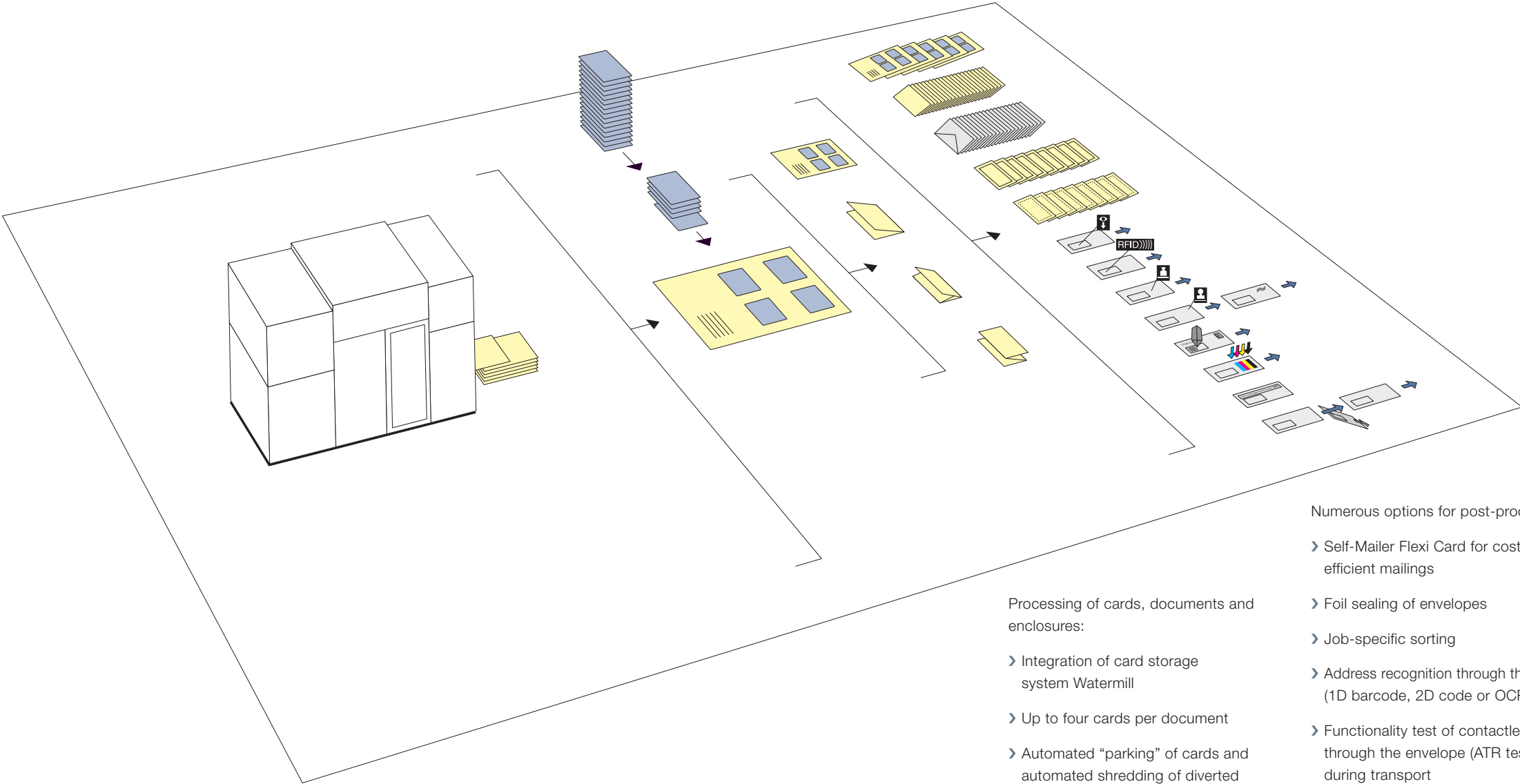
Processing of cards, documents and enclosures:

> Integration of card storage system Watermill

> Up to four cards per document

> Automated "parking" of cards and automated shredding of diverted documents

> PCI-ready (Payments Card Industry Data Security Standard)

> Single, Z or C fold

Numerous options for post-processing:

> Self-Mailer Flexi Card for cost-efficient mailings

> Foil sealing of envelopes

> Job-specific sorting

> Address recognition through the envelope (1D barcode, 2D code or OCR)

> Functionality test of contactless cards through the envelope (ATR testing) during transport

> Dynamic scale for Computerized Weighing (CW)

> Integration of postage meters

> Envelope Print On Demand (EPOD)

> Attaching of acknowledgement receipts

Advanced attaching technique
for increased productivity

Cardcube's attaching station reliably attaches up to 4,000 cards per hour to the card carrier using a new, patend-pending technique: A robot automatically and securely attaches up to four plastic cards to the corresponding document. Cards can be placed freely on the carrier while positions may vary from document to document. The robot can do even more: In case of a missing carrier document, all the corresponding cards are put into parking positions until the reprint has been completed. Diverted documents are automatically rejected and destroyed without interrupting the production process. The manual intervention usually involved with diverted cards, is now eliminated.

> Robot automatically attaches up to four cards per sheet

> Selective card positioning in x-, y-direction and angular positions on 2/3 of the document

> Automated parking of cards on 22 parking positions until the carrier document has been reprinted via a closed loop function

> Automated diverting of defective cards and carriers

> Shredding of diverted documents
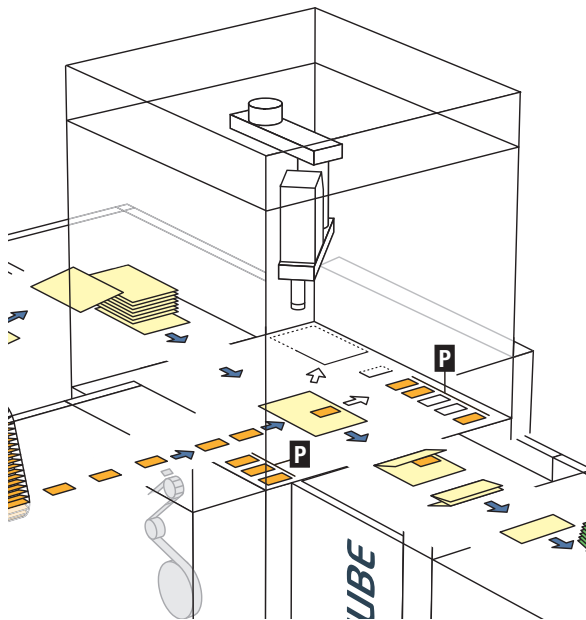
New flap folding unit
protects carrier and card

The new flap folding unit enables several folding geometries with an unprecedented level of quality: As the folding unit's "hammer" operates only in the area of the fold and does not affect the entire document, the embossed cards leave no imprint on the carrier document. The actual folding process is performed while the carrier is brought to a halt, so that the inertia of the attached cards has no impact on the folding accuracy – regardless of whether none, one or up to four cards are attached to the document.

> Precise, sharp-edged folding results

> Folds only edges and thus leaves no card imprint on the carrier

> Enables single, Z, C fold or no fold

> Quick changeover of folding type

> Patent-pending folding principle
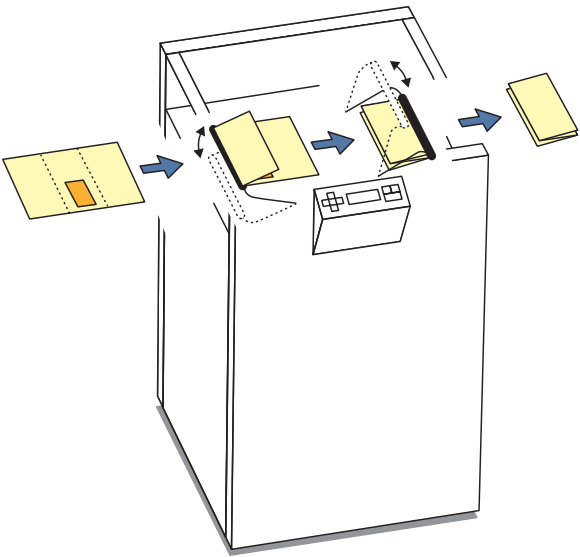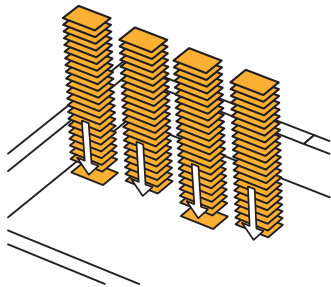
Card channel and attaching station
Cardcube's technology center

Card channel and attaching station comprise Cardcube's technology center. The card channel can be linked to the system from two sides as needed while at the same time optimizing the workspace for the operator. Ten or 16 stations can be freely configured with feeder magazines, various readers, turning units, restacking magazines, card buffers, mass storage units and labelling modules. The attaching station's robot reliably mounts up to 4,000 cards per hour onto the corresponding documents.
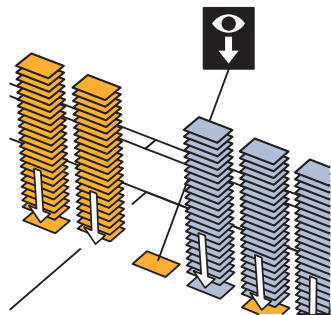
1 Feeder magazine

> For all standard ID-1 cards from 0.5 mm - 1.2 mm thickness
> Serial, parallel or selective draw-off
> High capacity for up to 500 non-embossed or 300 embossed cards
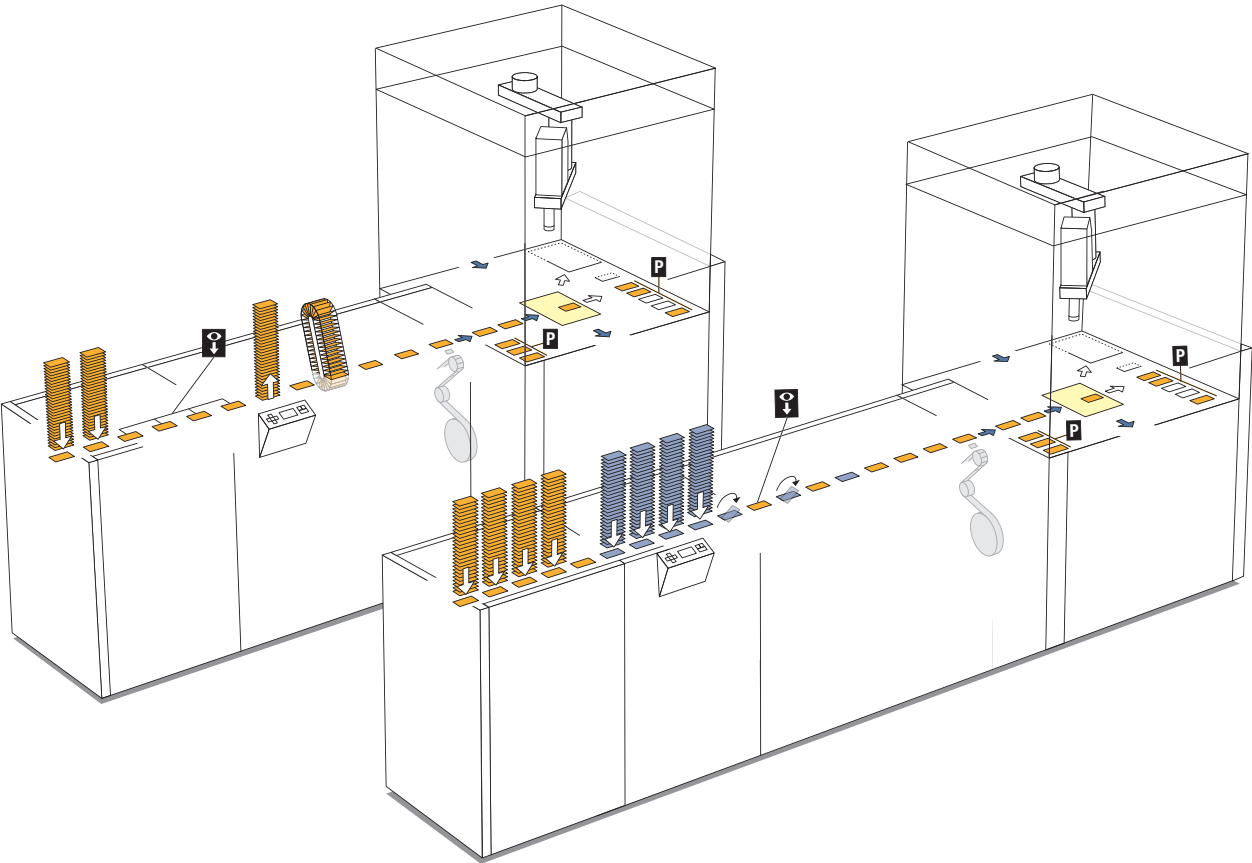> Easy refill during operation

2 Card reader

> Magnetic stripe (LoCo/HiCo)
> Contact chips
> Contactless chips (ISO 14443, Mifare type A and B)
> 1D barcode
> 2D code/Data Matrix
> OCR/OCV
> Logos
> Other readers upon request

3 Card turn-over

> Card can be read independent of feeding direction
> Card can be fed face-down and still be attached face-up

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

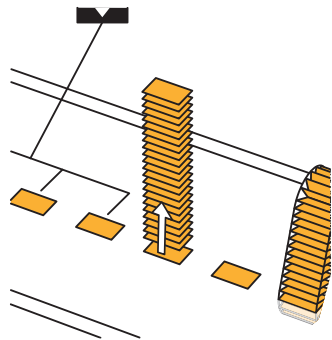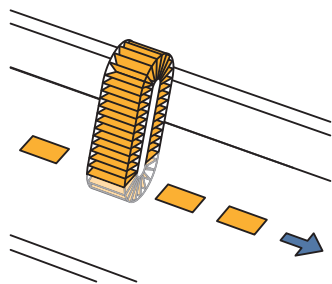**4**   **Restacking magazines**

> For stacking cards
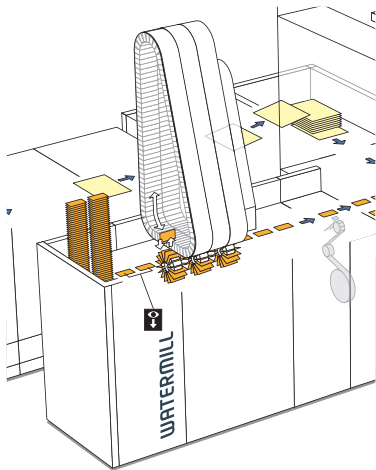
> For diverting (defective) cards

5   **Card buffer**

> Enables the synchronization of card and paper channel in online systems

> Holds up to 100 plastic cards

6   **Card storage Watermill**

> Brings unsorted cards into an optimal order

> Due to its high storage capacity, it is able to bundle a large number of individual jobs and forms the basis for efficient processing

> Minimizes time and effort for frequent job changeovers

> Enables fully automated pre-assembly of cards

> Comes with three or six modules per card channel and stores up to 1,890 or 3,780 cards respectively

7   **Different options for attaching cards**

> Standard: Label cut from a roll and applied to the back of the card

> Option: Hot glue is applied to the carrier
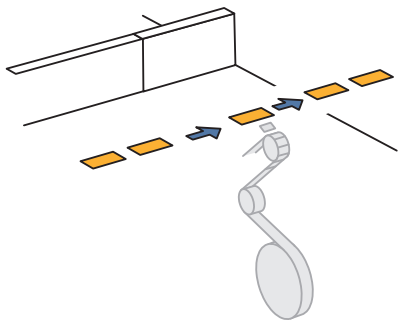
8   **Activation stickers attached directly onto cards**

> Pre-printed activation stickers are attached on the front side of a card in order to activate credit cards by dialing a telephone number printed on the label

> Advertising messages on the front side of the card

> Specifications of activation labels:
Width: 60 mm - 80 mm,
length: ½" (12,9 mm) - 1" (25,4 mm),
other label specifications available upon request
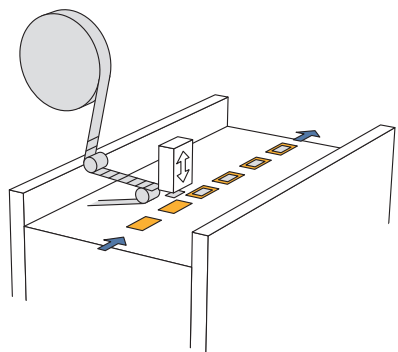
9   **Attaching station**

> Cards are attached to corresponding documents

> Robot automatically attaches up to four cards per sheet

> Selective card positioning in x-, y-direction and angular position on 2/3 of the document

> Automated parking of cards until the carrier document has been reprinted via a closed loop function (22 parking positions)

> Automated diverting of defective cards and carriers as well as shredding of the diverted documents
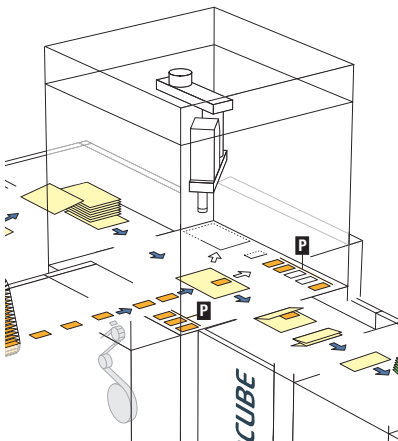
Integrity and productivity
in the entire process

Cardcube runs absolutely securely and reliably. With Cardcube, the manual interventions involved with card processing are a thing of the past. This card mailing system automatically handles all production steps from printing or reprinting the carrier documents, to job preparation and inserting – thus enabling the "White Paper Factory" solution for card mailing. The need for error-prone, manual interventions due to diverted cards which lead to a costly and time-consuming reprinting process, is eliminated. Cardcube raises integrity and economic efficiency to a new level.

Reading units and sensors provide information about where each card and each carrier is located within the system. Item tracking allows complete monitoring of materials and guarantees 100 percent integrity for the entire card processing procedure – regardless of the configuration.
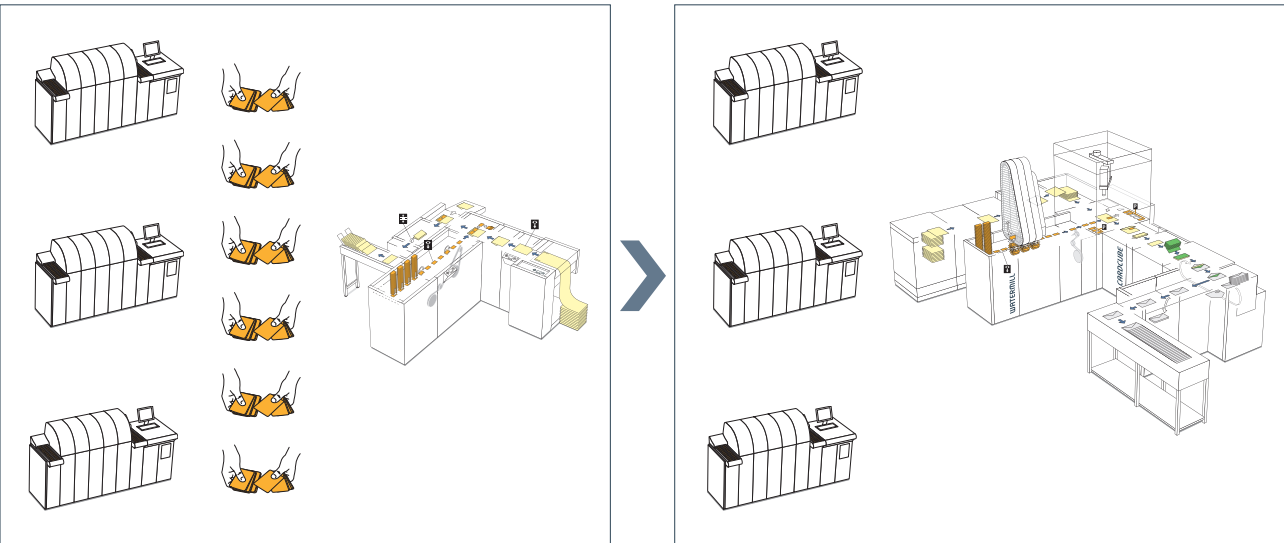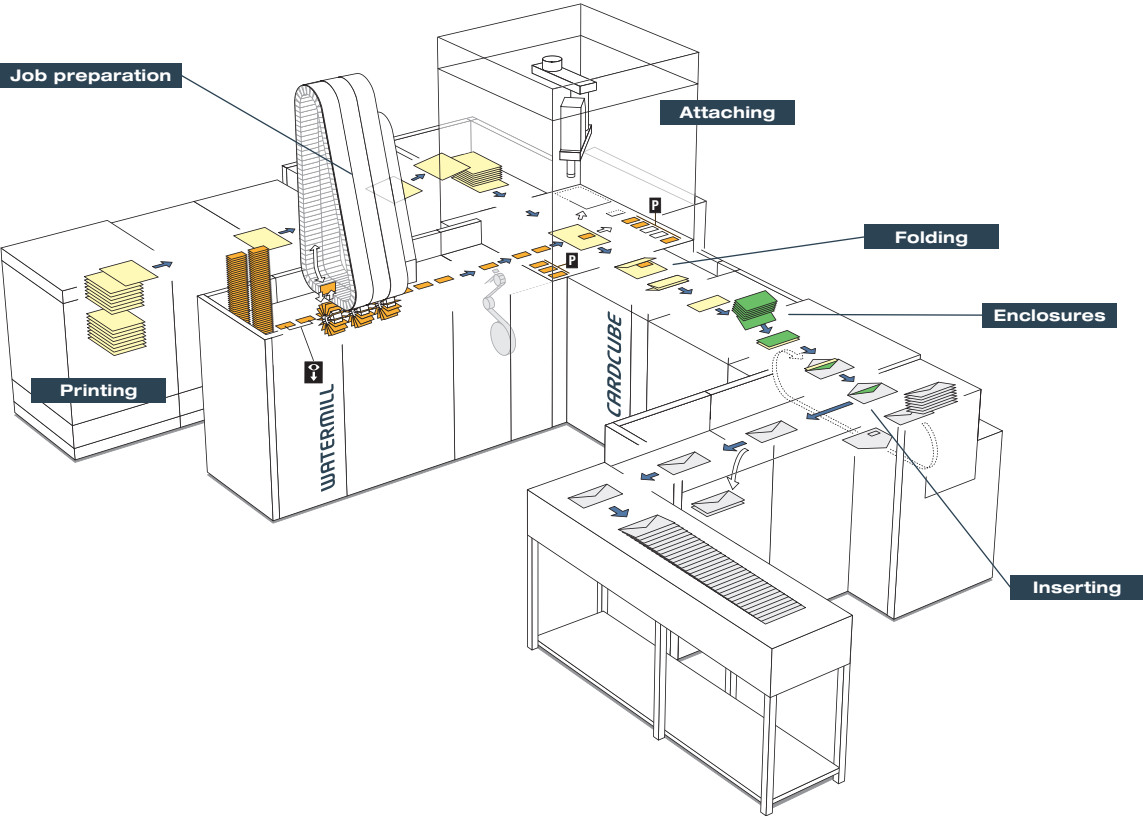
Optionally, the Watermill card storage system can be integrated into Cardcube which enables fully automated and secure card handling. Watermill stores cards from different personalization jobs and dispenses them in a job-specific sequence. This means, for example, that all cards that are intended for one specific recipient can be collated altogether onto one single carrier document – independent from the type of card. This eliminates the time-consuming manual pre-sortation after the personalization process that often implicates sorting mistakes and high production costs. The audit of the processing chain is getting considerably easier.

Technical Data
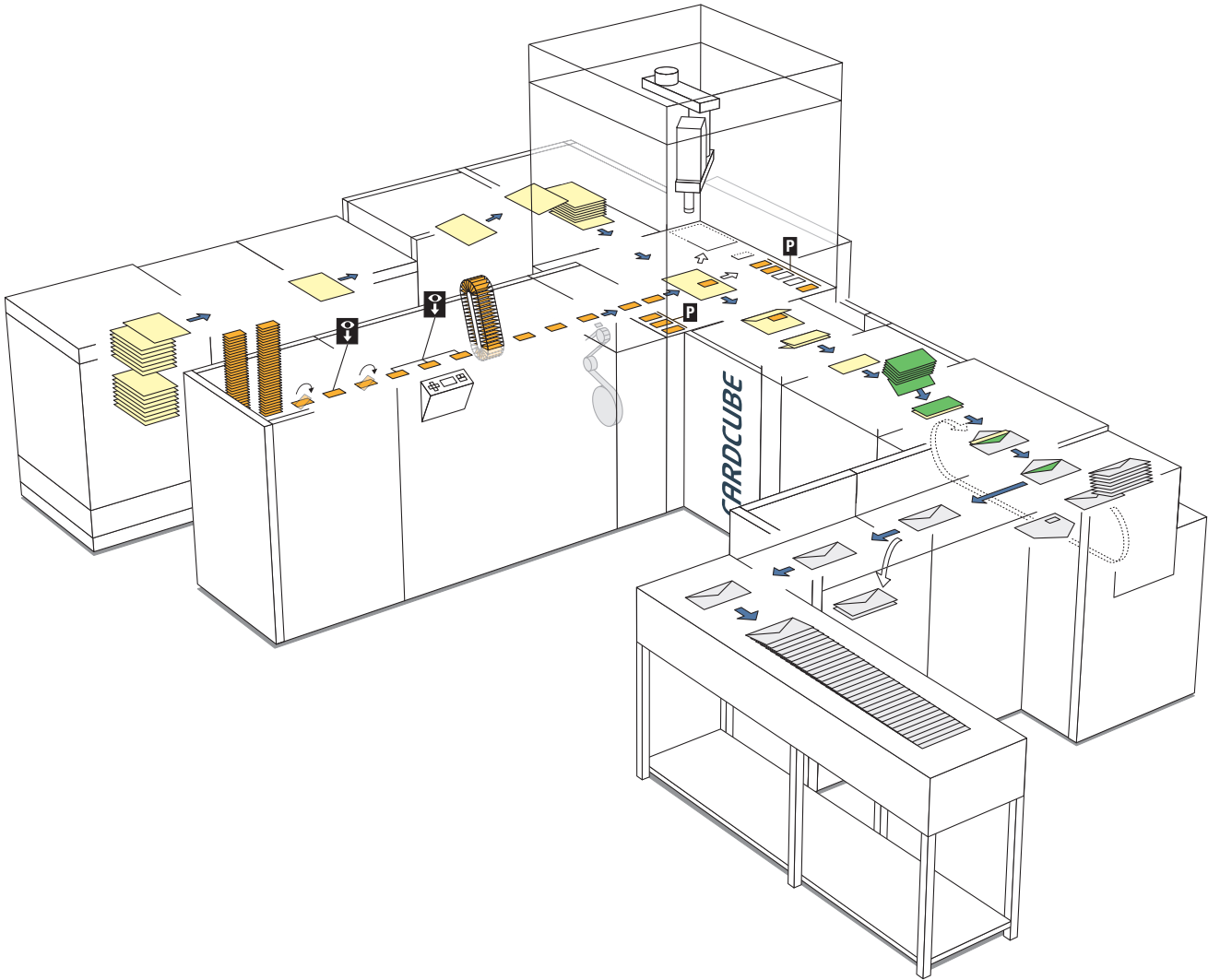
Max. performance

Up to 4,000 cards/h

Documents from the infeed channel

Width	210 mm - 216 mm	Paper weight	60 - 120 g/m²
Height	11" - 12"	Other formats and weights upon request	

Card formats

ISO/IEC 7810 ID-1 format CR 80 85.60 mm x 53.98 mm x 0.76 mm   Other formats upon request

Card thickness

0.5 mm - 1.2 mm   Other thicknesses upon request

Card material

PVC, ABS, PC, PET-G

Card feeding

Serial	Selective
Parallel	

Card channel

10 or 16 module position

Card buffer

Capacity of up to 100 cards

Card storage

Capacity of up to 1,890 cards with 3 modules	Capacity of up to 3,780 cards with 6 modules

A perfect match
Intelligent card mailing solutions

h: 4" - 14"
w: 120 - 295 mm

9,000
cards/h

85.60 x 53.98 mm
3 3/8" x 2 1/8"

1.2 mm/0.05"

0 - 6 cards
per carrier

universal
modularity

PACE

Bringing together
what belongs together

BÖWE SYSTEC card mailing systems enable personalized plastic cards to be sent to the card holders quickly and reliably. They guarantee the exact matching of cards and documents and automatically attach the cards to the corresponding carriers. If required, the card carriers can then be inserted into envelopes together with enclosures. We offer our clients tailor-made solutions on the basis of our inserting systems. Since the card mailing system Pace, for example, can be retrofitted any time, investment protection is guaranteed. All systems have a uniform operating philosophy. It allows fast and easy changeover from one job to the next, even if the batch sizes are small. Reading modules and sensors provide information about where each card and each carrier is located within the system. The result is highest integrity throughout the entire production process.

The right solution for every **card mailing application**

With speeds of up to **9,000 cards per hour**, Pace is able to process virtually any card mailing application quickly, easily and cost-effectively

Processing of pre-printed documents or integration of various printers

The heart of Pace: The **card channel** that can be freely configured and a flexible **attaching station**

Maximum integrity throughout the entire production process via reading modules and sensors

**Investment protection** thanks to the real modular system design

Outstanding flexibility
for any requirement

BÖWE SYSTEC is setting new standards in card mailing: Whether standard appli-
cations or highly complex letters with varying card positions and types, different
paper formats and layouts, individual text and the compilation of variable or cus-
tomized enclosures – Pace offers the right solution for every requirement. With
speeds of up to 9,000 cards per hour, virtually any card mailing application can be
processed quickly, easily and cost-effectively.

Highly flexible document input:

❯ Multi-channel-ready

❯ Continuous or cut-sheet processing

❯ 1-up and 2-up processing

❯ Processing of pre-printed documents
  and integration of monochrome and
  color printers possible

❯ Assembling after folding
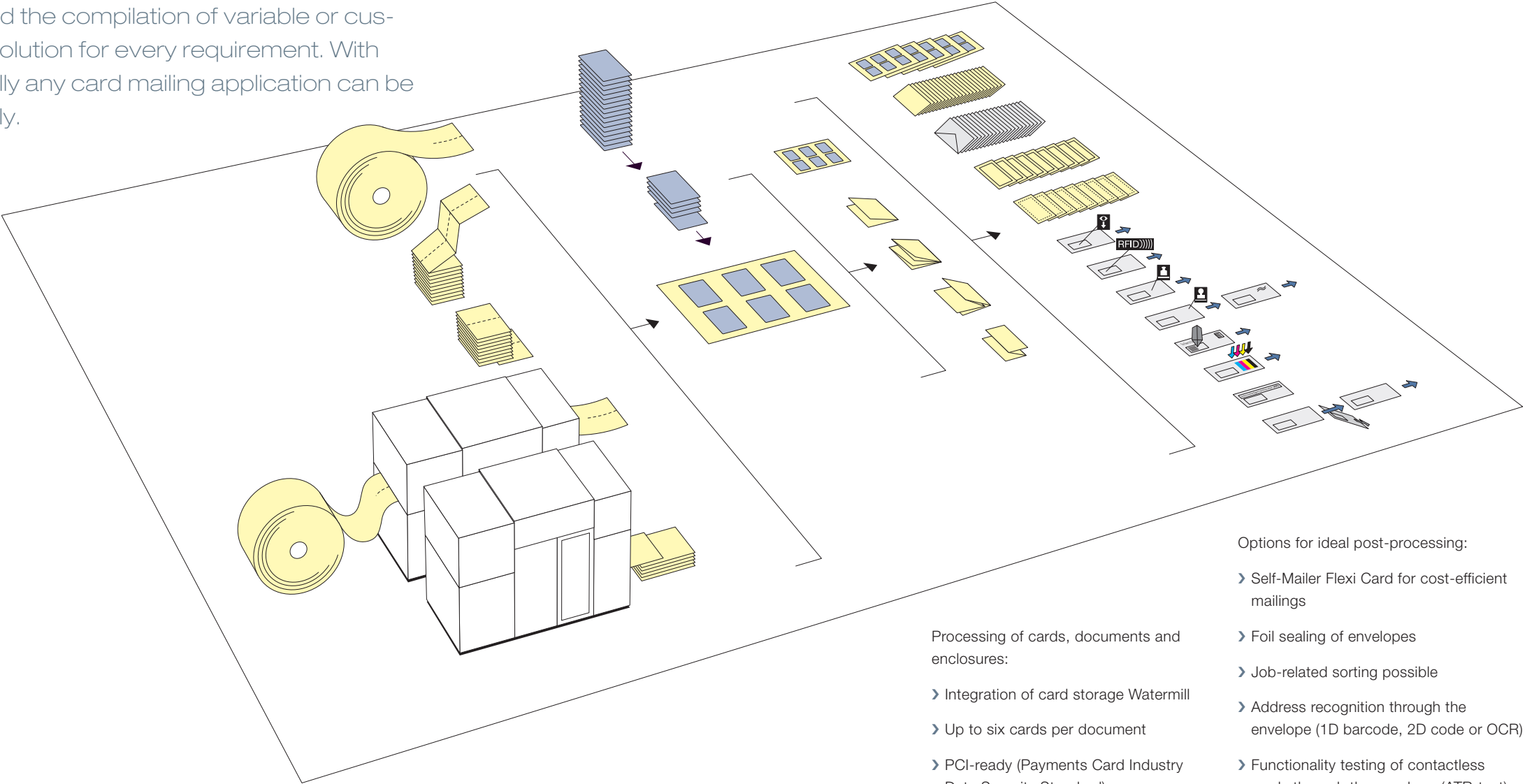
Processing of cards, documents and
enclosures:

❯ Integration of card storage Watermill

❯ Up to six cards per document

❯ PCI-ready (Payments Card Industry
  Data Security Standard)

❯ Single, Z, double parallel or cross fold
  possible

Options for ideal post-processing:

❯ Self-Mailer Flexi Card for cost-efficient
  mailings

❯ Foil sealing of envelopes

❯ Job-related sorting possible

❯ Address recognition through the
  envelope (1D barcode, 2D code or OCR)

❯ Functionality testing of contactless
  cards through the envelope (ATR-test)
  during transport

❯ Integrated dynamic scale for
  Computerized Weighing (CW)

❯ Integration of postage meters

❯ Envelope Print On Demand (EPOD)

❯ Attaching of acknowledgement receipts

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Many configurations
to process a variety of applications

In offline processing, plastic cards and documents are personalized in a preliminary production step. They are fed into the card mailing system in the same sequence. Both materials are then matched and attached securely and dependably. In online processing, Pace is connected to a digital high-speed printer. Already personalized cards are fed into the system, read, and the corresponding carrier document is printed on demand. If creating ready-to-mail envelopes is called for, an inserting system or a self-mailer can be integrated; card storage Watermill provides more efficiency in card processing.

Pace without printer or inserter provides a solid foundation. The personalized documents are fed into the system, read and matched 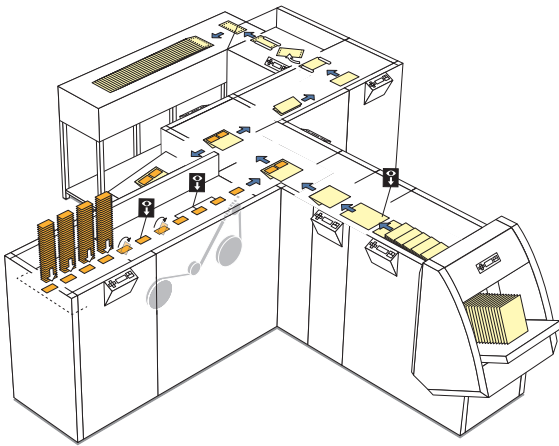to the right card. After the cards are attached to the corresponding document, the document is folded and stacked. Further production steps can then be carried out manually or by using other machines.

In online configurations, a **document printer is integrated into the card mailing system,** simplifying logistics considerably: Infeed of cards can take place in random order, since printing of the corresponding document is only initiated once the respective card is read. Reprints can be initiated as needed directly in the system. Whether cut-sheet or continuous forms – the online system can handle both variations easily. Printers with several paper trays allow for selective draw-off of various forms, so that different applications can be bundled into one job.

The **integrated self-mailer Flexi Card,** enables Pace to prepare printed documents for mailing without inserting. With speeds of up to 8,000 sheets per hour, the high-capacity self-mailer safely folds and seals documents using heat and pressure. A clean, reliable and economical solution for creating cost-effective mailings.

Card channel and attaching station
The heart of Pace

The card channel and attaching station form the central unit of the card mailing system Pace. The chard channel can be freely configured and is available with ten or 16 stations; it can be individually outfitted with feeder maga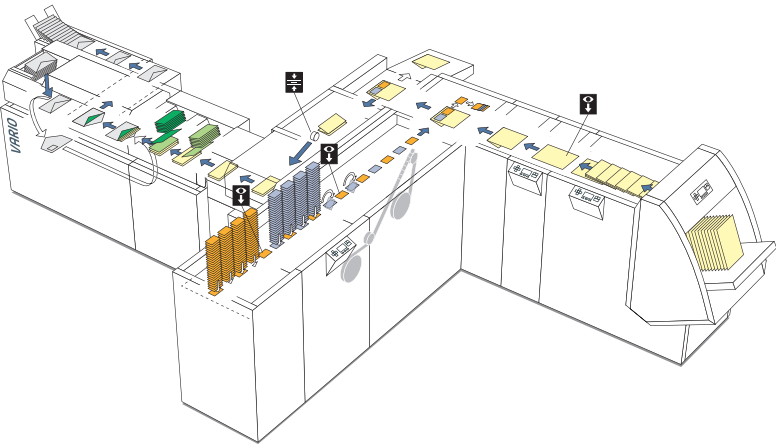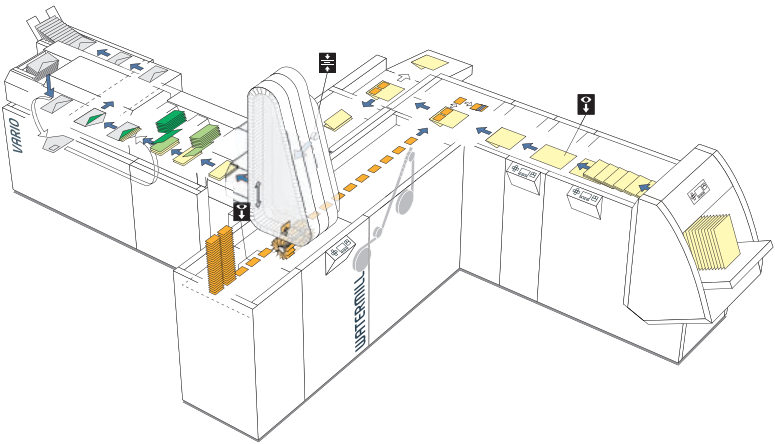zines, various readers, turning units, restacking magazines, a card buffer, a mass storage device as well as labelling modules. The attaching station can securely apply up to 9,000 cards per hour to the corresponding carrier document. The position of the cards on the documents may vary and the cards can be rotated into the correct position as needed.

Pace connected to an inserting system offers a flexible solution for producing ready-to-mail envelopes. The number of enclosure feeders can be freely selected, guaranteeing the necessary flexibility for individualized compilation of mailpieces. A wide range of post-processing options is also available for this configuration.

With the **mass storage device Watermill,** efficiency in card logistics gets a whole new meaning: The Watermill card storage system can hold up large numbers of plastic cards from different personalized jobs, which can be processed according to demand. It is no longer necessary to manually pre-sort individual orders, reducing the number of potential errors and working hours. Repeated set-ups for numerous small orders are also a thing of the past. Watermill is available as a module to be retrofitted in existing BÖWE SYSTEC card mailing systems or as a stand-alone module. It comes with three or six storage modules and holds up to 1,890 or 3,780 cards respectively.

1 **Feeder magazine**

› For all standard ID-1 cards from 0.5 mm - 1.2 mm thickness

› Serial, parallel or selective draw-off

› High capacity for up to 500 non-embossed or 300 embossed cards

› Easy refill during operation

2 **Card reader**

› Magnetic stripe (LoCo/HiCo)

› Contact chips

› Contactless chips (ISO 14443, Mifare type A and B)

› 1D barcode

› 2D code/Data Matrix

› OCR/OCV

› Logos

› Other readers upon request

3 **Card turn-over**

› Card can be read independent of feeding direction

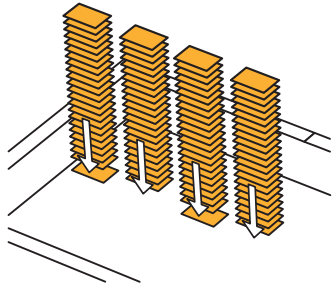› Card can be fed face-down and still be attached face-up

4 **Restacking magazines**

› For stacking cards

› For diverting (defective) cards
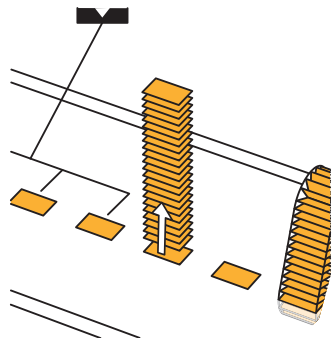
5 **Card buffer**

› Enables the synchronization of card channel and paper channel in online systems
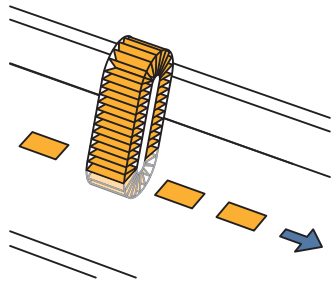
› Holds up to 100 plastic cards

6 **Card storage Watermill**

› Brings unsorted cards into an optimal order

› Due to its high storage capacity, it is able to bundle a large number of individual jobs and forms the basis for efficient processing

› Minimizes time and effort for frequent job changeovers

› Enables fully automated pre-assembly of cards

› Comes with three or six modules per card channel and stores up to 1,890 or 3,780 cards respectively
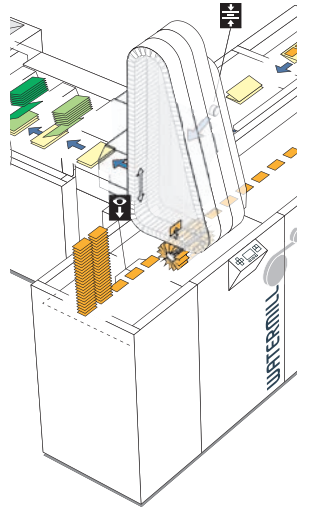
7 **Miscellaneous options for the attaching of cards**

› Self-adhesive, pre-cut label is attached to the back of the card

› Label is cut from a roll and applied to the back of the card

› Hot glue is applied to the card carrier
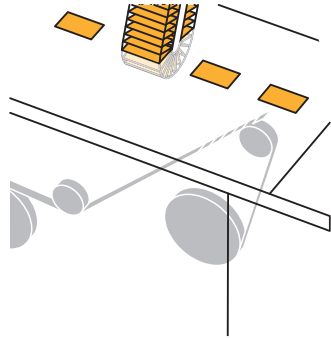
BÖWE SYSTEC
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Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

8 **Activation stickers attached
directly onto cards**

> Pre-printed activation stickers are
attached on the front side of a card in
order to activate credit cards by dialing
a telephone number printed on the label

> Advertising messages on the front side
of a card

> Specifications of activation labels:
Width: 60 mm - 80 mm,
length: ½" (12,9 mm) - 1" (25,4 mm),
other label specifications available
upon request
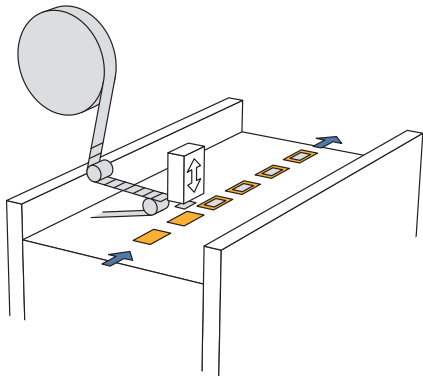
9 **Attaching station**

> The cards are applied to the matching
carrier documents

> Up to six cards can be attached onto a
carrier

> Selective and fully-automated posi-
tioning of the cards in x- and y-directions

> Contains diverting module for cards
without matching carriers

> The cards can even be rotated in
1 ° (up to +/-90 °) increments as needed
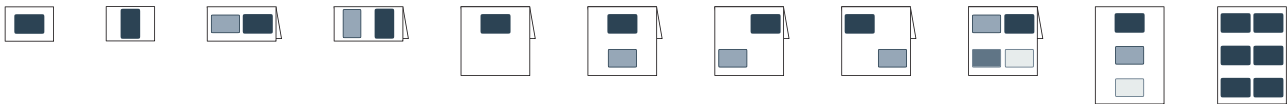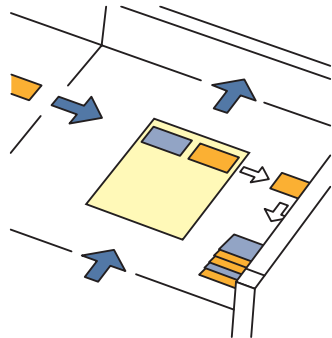
Comprehensive integrity
throughout the entire production process

Continuous tracking of materials and continuous monitoring of the entire production
process in all of our card maliling systems guarantee maximum integrity. Reader
modules provide dependable identification of cards and documents and ensure
that the right card is attached to the right carrier. Mismatched or defective cards
and carriers are automatically diverted. This system is PCI-ready. Special safety
mechanisms prevent from any outside interference in the production process.

Pace easily handles different forms during
a single production process. With the help
of a reader module, Pace ensures that
the right text appears on the right pre-

printed form with the right plastic card
attached to it. In additon, this system
complies with all security standards of
leading credit card companies. Special

mechanical and eletronic safeguards
prevent from any manipulation during the
production process.
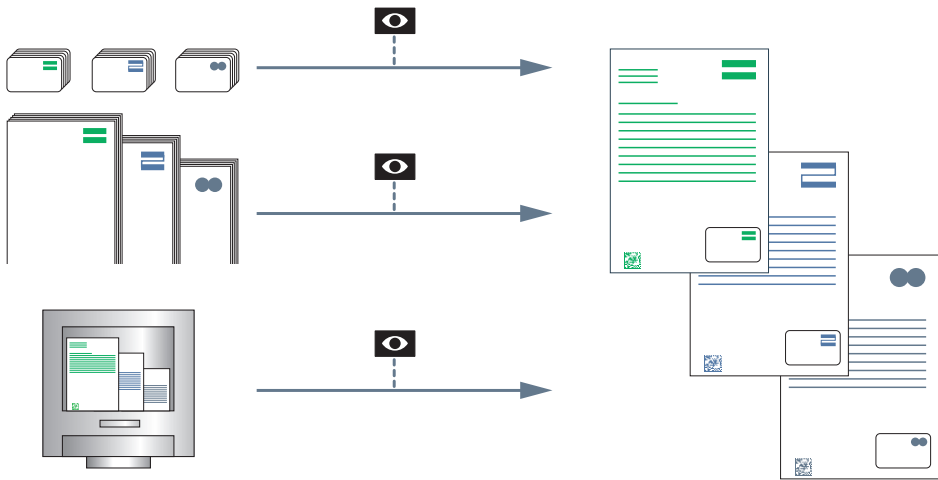
Technical Data
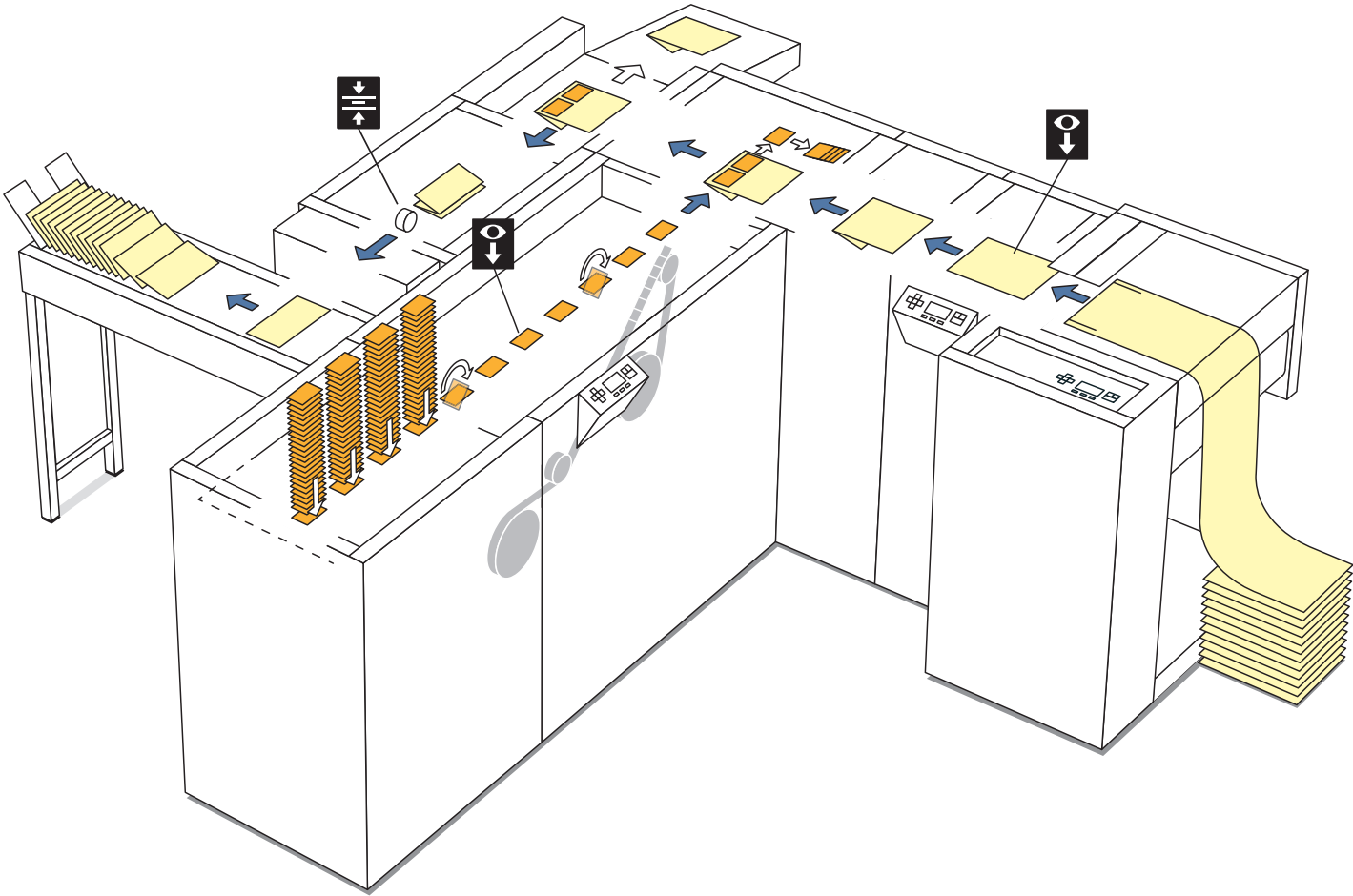
Max. performance

up to 9,000 cards/h

Documents from the infeed channel

Width	120 mm - 295 mm	Paper weight	60 - 160 g/m²
Height	4" - 14"	Other formats and weights upon request	

Card formats

ISO/IEC 7810 ID-1 Format CR 80 85.60 mm x 53.98 mm x 0.76 mm   Other formats upon request

Card thickness

0.5 mm - 1.2 mm   Other thicknesses upon request

Card material

PVC, ABS, PC, PET-G

Card feeding

Serial	Selective
Parallel	

Card channel

10 or 16 module positions

Card buffer

Capacity of up to 100 cards

Card storage

Capacity of up to 1,890 cards with 3 modules	Capacity of up to 3,780 cards with 6 modules

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Inserting

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Options for Inserting and Card Mailing

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Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service

Increased efficiency
for processing cards

1,890/3,780 cards

flexibility in card reading
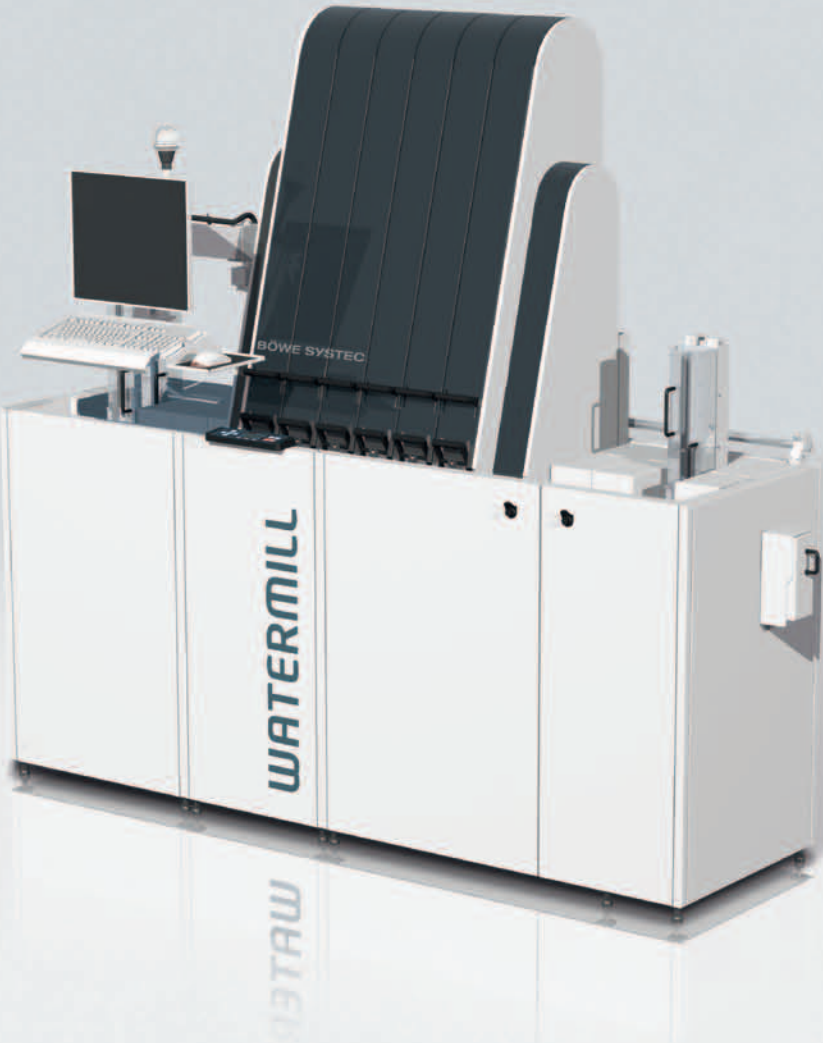
**85.60 x 53.98 mm
3 3/8" x 2 1/8"**

0.76 mm/0.03"

fully automated card processing

stand-alone/ integrated

WATERMILL

Maximum productivity
through fully automated processing

Especially banks and service bureaus are among the many card processors challenged by smaller and smaller job sizes. This often results in time-consuming, costly manual sorting practices and card mailing systems working well below their capacity. To optimize card sequencing for manual output or mailing, BÖWE SYSTEC has developed the mass storage device Watermill. It is easily integrated into new or existing BÖWE SYSTEC card mailing systems and is also available as a stand-alone module.

The Watermill card storage system can hold up to 3,780 plastic cards from different personalized jobs which can be processed according to demand. It is no longer necessary to manually pre-sort individual orders, reducing the number of potential errors and production time.

Repetitive set-ups for numerous small orders are also a thing of the past. Watermill is available as a module that can be retrofitted in existing BÖWE SYSTEC card mailing systems or as a stand-alone module. It comes with three or six storage units and holds up to 1,890 or 3,780

cards respectively. Watermill runs on the newly developed control software Card Manager, which is compatible with the Orbiter platform. Defining even complex orders is now easy and intuitive.
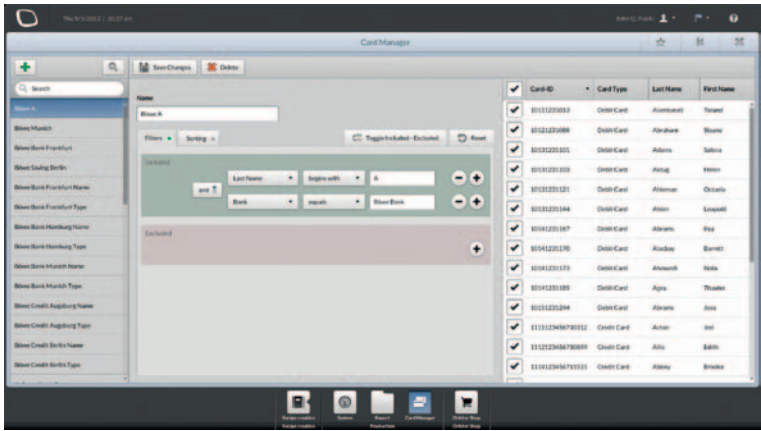
Technical Data
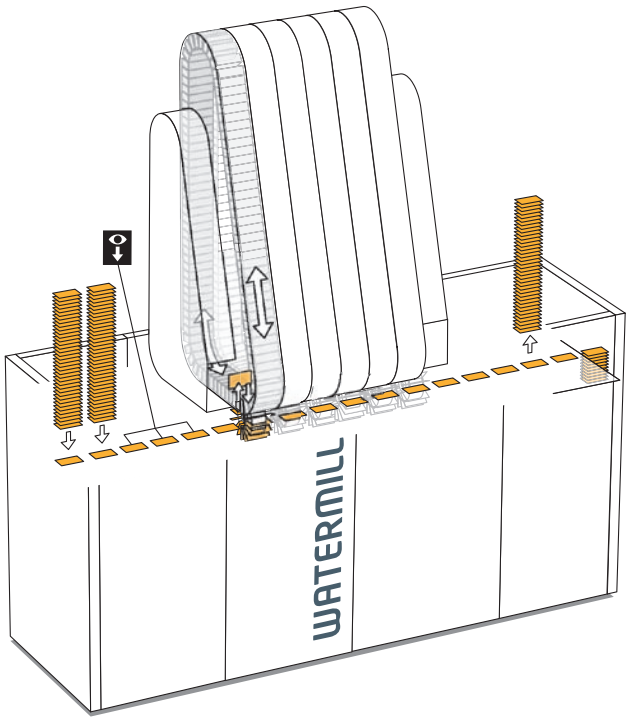
Max. storage capacity

Configuration with 3 storage units containing up to 1,890 cards	Configuration with 6 storage units containing up to 3,780 cards

Card formats

ISO/IEC 7810 ID-1 Format CR 80 85.60 mm x 53.98 mm x 0.76 mm

Card thickness

0.76 mm	Other thicknesses upon request

Card material

PVC, ABS, PC, PET-G

Flexible card reading

OCR, 1D barcode, 2D code (Data Matrix), magnet stripes LoCo/HiCo, contact chips, contactless chips

Available configurations

Stand-alone	Integrated in BÖWE SYSTEC card mailing systems

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Card Logistics and Mailing

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Sorting

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Options for Inserting and Card Mailing

Options for Inserting and Card Mailing

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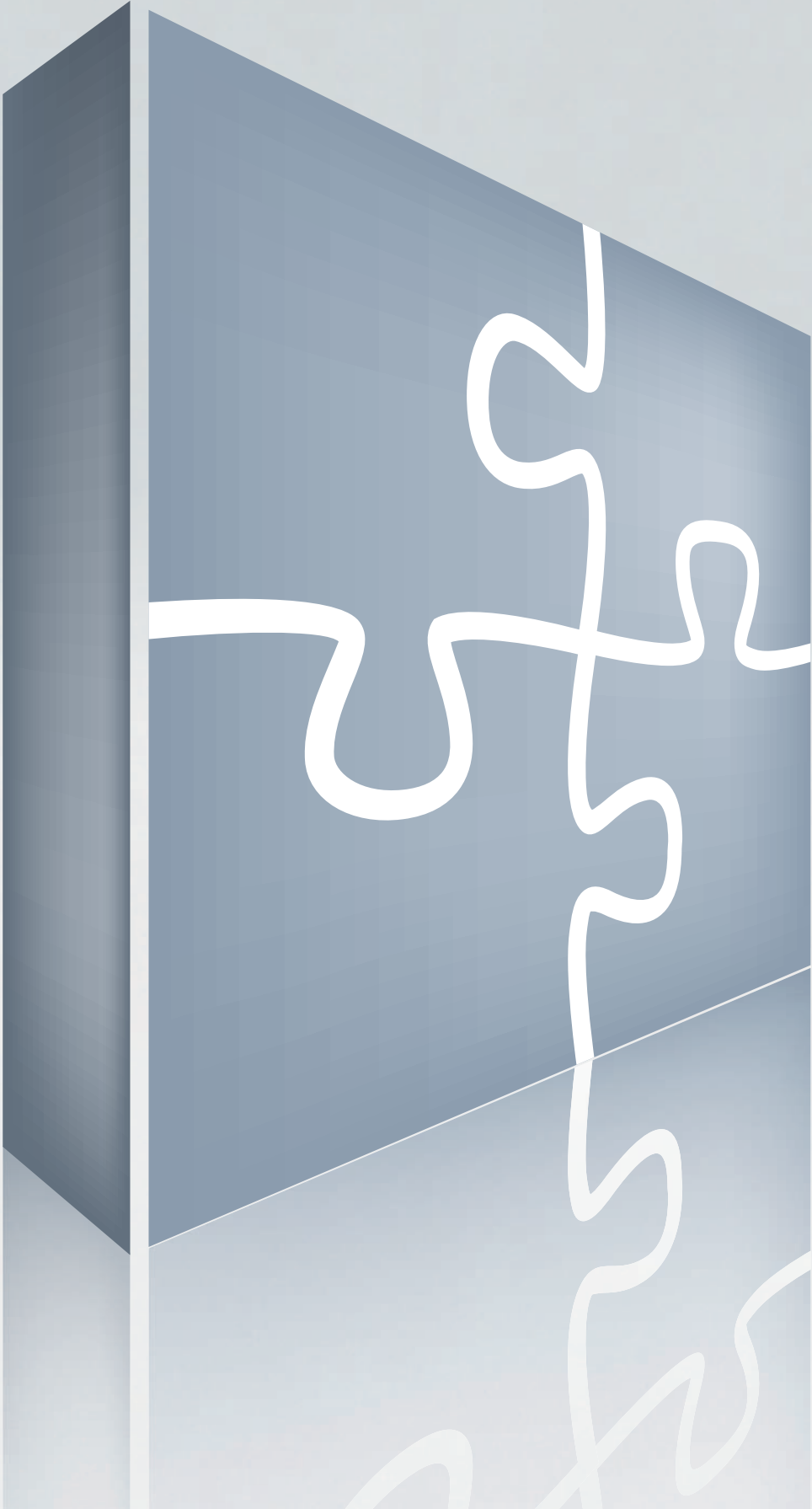
The right infeed channel
for every requirement

We offer a wide range of feeding options for each of our products in the inserting and card mailing segment. Standard infeed channels in three different performance classes are able to serve any requirement in the mailroom and guarantee maximum efficiency.

For the right feeding solution in both cut-sheet and continuous form processing, a wide range of infeed channels is available

in standardized configurations – from the basic performance category 1 all the way to the highest performance category

3. Additional infeed channels designed to meet specific client needs are also part of our portfolio.

			Max. sheets/h		Form sizes				
			A4 or 12"	4"	3 1/2" – 16"	3 5/6" – 14"	8" – 12"	8" – 14"	8 1/2" – 14"
Performance class 1	cut-sheet	assembling before/ after folding	30,000					●	
Performance class 2			38,500						●
Performance class 3			44,000						●
Performance class 1	continuous	assembling after folding	44,000	46,400	●				
Performance class 1		assembling before/ after folding	44,000	71,400		●	●	●	
Performance class 2			49,600	69,600		●	●	●	
Performance class 3			72,600	100,000		●		●	

Highest performance
begins at the infeed channel

Thanks to its high feeding performance, the performance class 3 High-Speed Input Channel enables constant speeds even when processing a high number of documents. Due to its intelligent control system, it also ensures secure and continuous document tracking while assembling.

Using a cycled rotary blade the cutting stroke is shortened which significantly reduces the duration of the cutting cycle. The speed-ramps for acceleration, transport and deceleration ensure the optimization of all processing steps. The servo controller enables the fast, exact

positioning and alignment of the paper below the cutting blade.

› Performance 100,000 sheets/h at 4"

› Transport by suction belt

› Flexible merging independent of print sequence

› Vast format range

› Excellent accessibility

› Short changeover due to motorized adjustment

› Patented merging
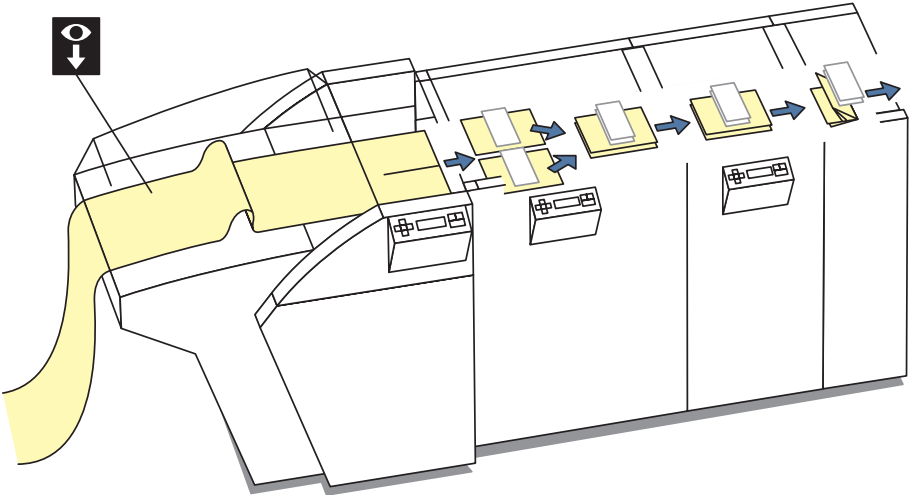
Multifunctional
reading technology

When it comes to reading technologies, BÖWE SYSTEC incorporates present industry standards as well as the newest technologies. Basic scanners recognize OMR or barcodes quickly and with a high reading rate. Our intelligent camera solutions are able to read and analyze all standard codes as well as images, such as logos or addresses. All reading technologies are also completely integrated into BÖWE SYSTEC software solutions, allowing them to be easily and centrally programmed. The BÖWE SYSTEC reading systems ensure reliable document identification, guaranteeing maximum processing security during the entire mailing process.

> Investment protection by using the latest technology

> Processing security through high reading rates

> Reduction of set-up time and increase in productivity thanks to simple adjustment via the user interface

> Can be flexibly used as it enables the reading of all standard codes and images

> Can also be used at the end of the inserting process for quality control

Integration possibilities

The intelligent reading technologies are available for all BÖWE SYSTEC systems. They can be used in cutters, cut-sheet feeders, enclosure or envelope feeders as well as at the output of inserting or card mailing systems. The further processing of the read documents – up to mailing – is accurately documented and made transparent. In this way, our reading systems significantly improve the automation process and lead to an increase in integrity in the mailroom.

OMR	Barcode Code 39	Barcode Interleaved 2/5	OCR	Data Matrix	Logo
	BOEWE 2001	0123456789	123ABC456		

Vektor camera reading
for great expectations

Vektor reading technology is available for all BÖWE SYSTEC high-performance systems and is capable of reading and analyzing all common codes (OMR, OCR, barcode, Data Matrix, etc.) and images, such as logos or addresses. The line-scan camera can scan virtually an entire document and simultaneously analyze up to five Regions Of Interest (ROI). This allows, for instance, the reading of the machine control code and, by examining the letterhead, the verification if the correct form was used at the same time.

The Vektor line-scan camera scans almost the complete document and is capable of processing up to five freely definable reading areas on a sheet. Depending upon the position of the camera within the inserting process the machine is controlled, document data is identified and documents are tracked

during processing. Vektor is completely integrated into the machine control system and therefore can be programmed easily and centrally.

> Vektor reads all common codes, logos or addresses with ease

> Machine control codes can be read together with form verification

> Can also be used for quality checks at the end of the inserting process
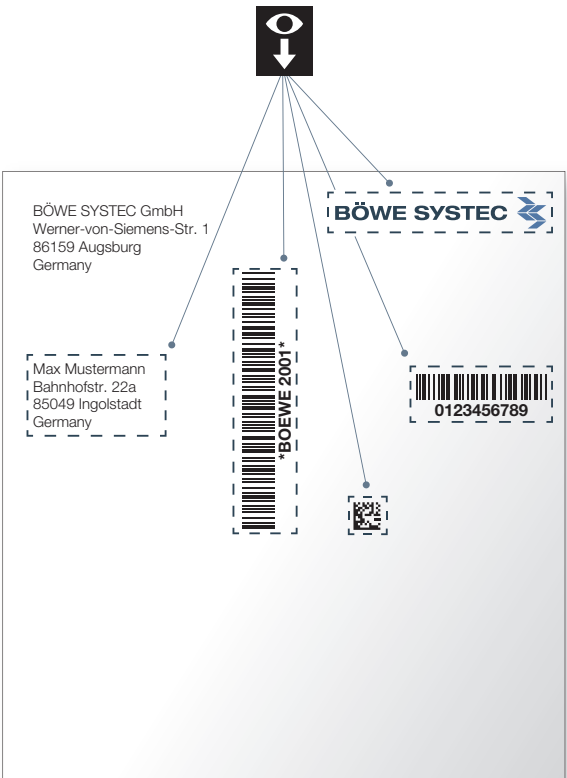
Vektor lean
The cost-effective reading solution

As an economic, alternative option to more expensive line-scan solutions, Vektor lean offers an area-scan camera capturing all common codes, logos and images. The camera captures just one ROI. With three different configuration levels, Vektor lean offers the right camera reading solution for every mailroom.

Vektor lean is available in three configuration levels – and that is exactly what makes this solution so attractive: The customer only pays for the application required while still being able to upgrade at any time.

> Dust-proof housing with integrated optics and powerful lighting

> Position of camera is freely selectable and easily adjustable

> Large scan area of 72 mm x 54 mm

> High resolution of 1,034 x 779 pixels

> Easily integrated into system operation

> Retrofit possible at any time
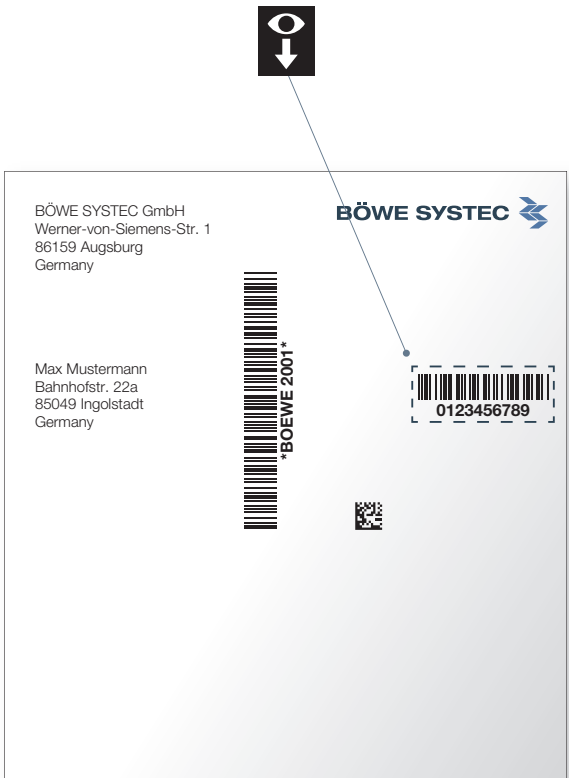
Configuration level	OMR	2D	Barcode	Logo	OCR
1	●	●			
2	●	●	●	●	
3	●	●	●	●	●

EPOD envelope printing
Brilliant printing results

Printing customized advertising messages with Envelope Print On Demand (EPOD) introduces completely new ways to catch the addressee's attention. By making pre-printed envelopes unnecessary EPOD creates the basis for a significant increase in efficiency within the whole internal company processes.

EPOD can be easily integrated into inserting systems as a module and delivers brilliant color printing results for individually designed envelopes. EPOD convinces with impressively fast and intelligent thickness compensation. Extraordinary operator friendliness rounds off this solution. All components are easily accessible and print heads can be easily replaced at moderate prices.

> Excellent print results with a resolution of 600 x 300 dpi

> Printing speeds of up to 22,000 env/h

> Consistently high print-quality even for differently filled envelopes due to integrated thickness compensation at full speed (maximal thickness compensation 15 mm)

> Enables individual print contents for each envelope

> Maximum print width of 108 mm (print head position vertically adjustable)

> System-longevity due to its self-maintainability

> Convenient thanks to fast-drying ink (Dye ink)
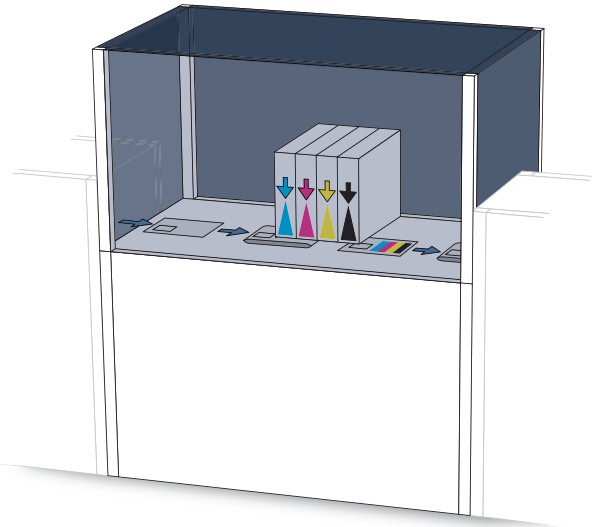
EPOD-DM
The Decision-Maker

EPOD-DM is an intelligent module for sorting and printing mailpieces. It can be integrated into inserting systems or added as an upgrade. On the basis of individually defined criteria, EPOD-DM can determine with which postal service the letters should be sent. Depending on whether an envelope is to be sent via a private postal company or a state-owned postal service, EPOD-DM prints the letters accordingly in full-color and sorts them in separate conveyor stackers depending on the postal service provider.

> EPOD-DM decides about the shipping method of the envelope on the basis of virtually any criteria such as delivery costs, postage categories, delivery time, ecobalance or direct delivery

> Criteria for sorting the letters can be combined in any variation

> The finishing for the different shipping methods can be designed individually, e.g. with logistics barcodes, logo or TransPromo print

> Minimizes logistical expenses

> Ideal for optimizing postage

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service
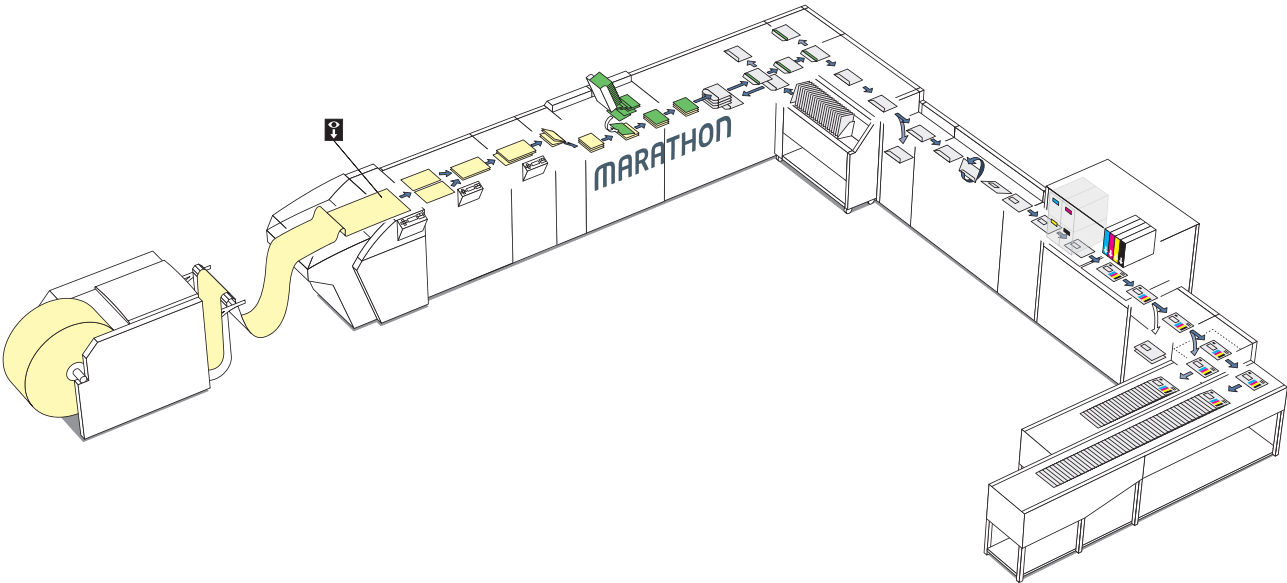
EPOS postal tray system
Efficient letter logistics

The Envelope Packaging Output System (EPOS) is an intelligent system for the automated filling of postal trays. It is available for the inserters Turbo 8G, Marathon and Vario. EPOS takes the envelopes filled by the inserter and places them automatically in the prepared postal trays. An optional labelling module additionally enables EPOS to prepare labels for the individual postboxes and then attach them automatically.

> EPOS enables high processing speeds of up to 26,000 env/h

> Envelope formats: C6, B6, DL, C6/5, C5, #7 3/4, #10, 6 x 9

> Envelopes can be fed into the system either landscape or portrait

> Envelopes can be placed into the mailboxes with the flap up or down

> High productivity thanks to the continuous supply of empty postboxes as well as the automatic transport of filled ones

> Postboxes from the following countries can be processed: Italy, France, Belgium, Portugal, Sweden, Germany, Netherlands, USA, UK (other countries upon request)
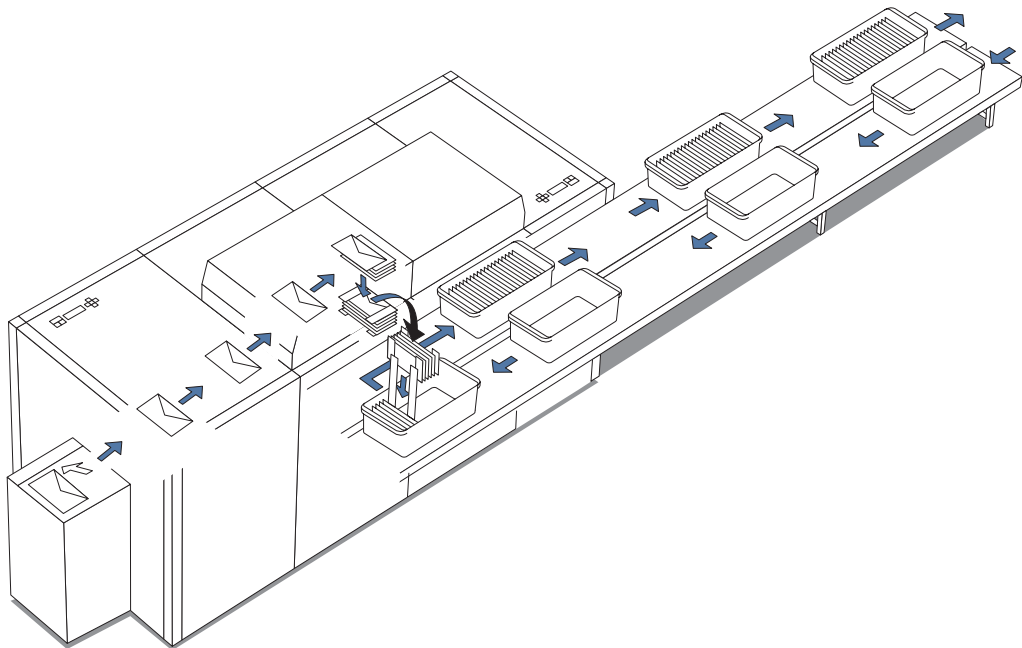
BIPS
Minimal changeover time, maximum output

BÖWE Intelligent Productivity System (BIPS) helps reduce changeover times significantly and as a result greatly increases production capacity. Supported by BIPS, the whole system can be adjusted and set-up quickly for new applications. Due to the memory-function, job parameters once stored may be reloaded at any time.

The automated job changeover with BIPS available for many BÖWE SYSTEC inserting systems saves valuable time, reduces changeover times and thus increases availability. Using the simple and self-explaining input mask of the system control software the operator can changeover the whole inserting system within minutes and without mechanical intervention. Changes regarding form sizes or fold parameters are performed by motorized adjustment of system components. This ensures safe and reliable reproducibility of all job settings and simplifies system operation.

Productivity

Set-up

Production

Standard   BIPS
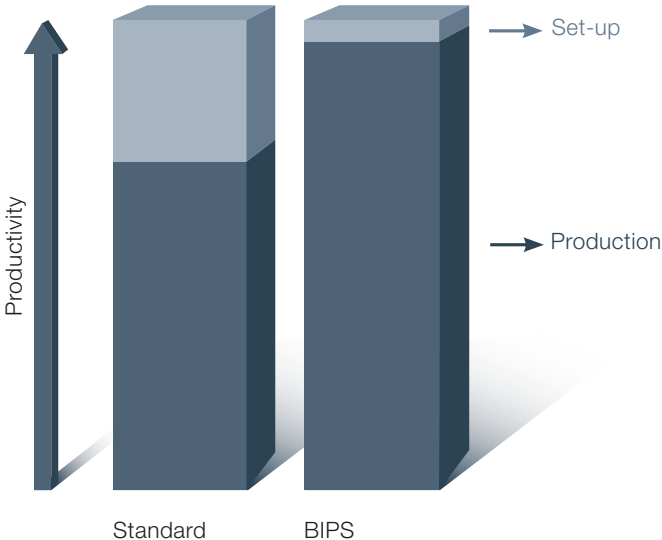
Product portfolio
Self-Mailing

	Max. performance sheets/h	Perforation	Folding pockets	Enclosures	Cut-sheet	Continuous	Continuous 2-up/A3
Sealect	**15,000 - 30,000** (1-up) (2-up)	○	**4**	○	○	●	○
Flexi	**10,000**	●	**2**		●	○	
Flexi Plus	**12,500**	●	**4**	○	●	○	
Flexi Card	**8,000**	●	**2**		●		
Sealight	**2,500**	○	**2**		●	○	
Print2Seal	**3,000**	**only on the two short sides**	**2**		●		

	Online to printer	Reading	Form height	Form width		Paper weight	Vertical stacker
Sealect	○	○	**8" - 16"** (1-up, 2-up), A4, A3	**140 - 297 mm/352 - 450 mm** (1-up) (2-up)		**70 - 140 g/m²**	○
Flexi	○	○	**8" - 14"**	**140 - 220 mm**		**70 - 140 g/m²**	○
Flexi Plus	○	○	**11" - 14"**	**205 - 230 mm**		**70 - 140 g/m²**	○
Flexi Card	○	○	**8" - 14"**	**140 - 220 mm**		**70 - 140 g/m²**	○
Sealight	○	○	**8" - 12"**	**205 - 230 mm**		**70 - 140 g/m²**	○
Print2Seal	●	○	**A4/US letter**	**A4/US letter**		**70 - 140 g/m²**	

● Standard
○ Option

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Self-Mailing
easy and efficient

FLEXIPLUS

BÖWE SYSTEC
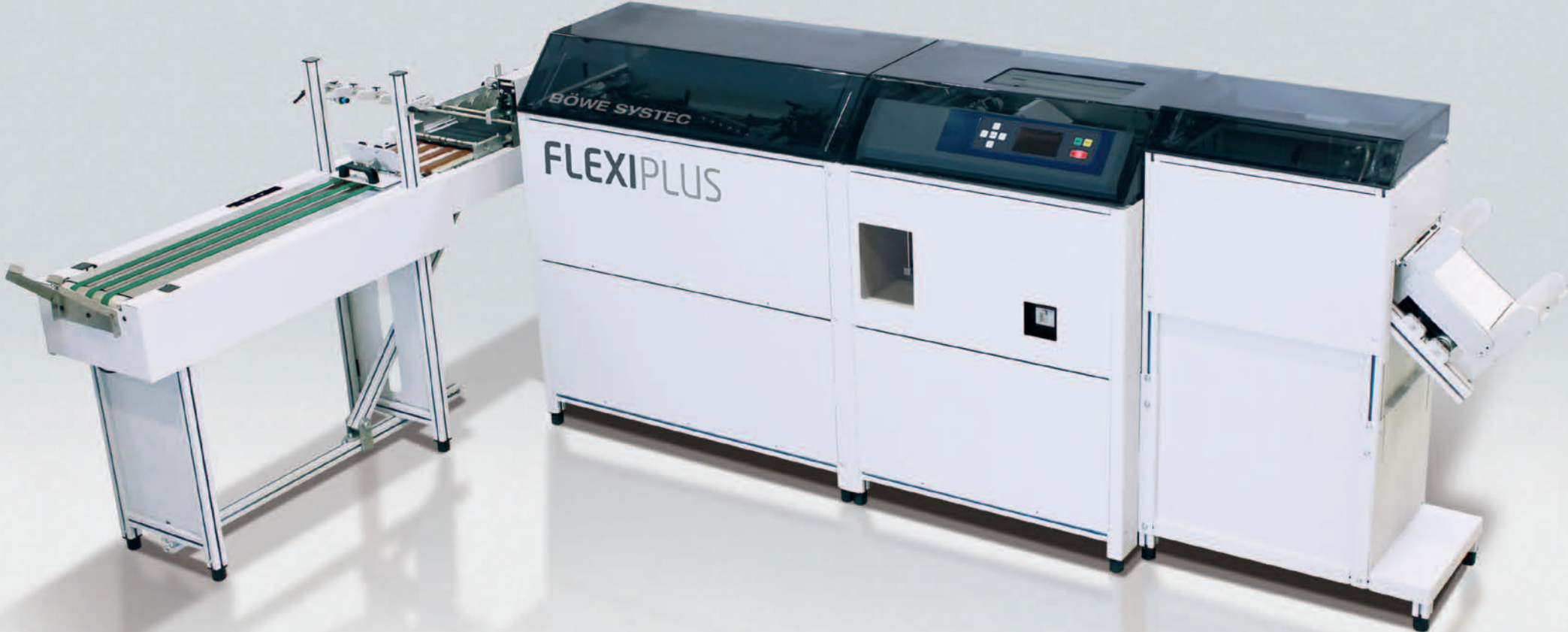
Flexi Plus
Seal securely instead of inserting

The Flexi Plus Sealer is the ideal system for preparing printed documents for mailing without inserting. The high-capacity self-mailer folds and seals paper by a clever process, making envelopes and glue unnecessary: Whether standard copy paper, coated, glue- or chemically coated paper – the document is heated and safely sealed under pressure. A clean, reliable and economical solution and thanks to the simple modular design, with the added value of low service and maintenance costs.

At up to 12,500 documents per hour Flexi Plus delivers high production capacity. The unique closing technology seals the document with heat and pressure and is perfectly suitable for sensitive data such as PIN codes, bank statements, insurance information or direct mailings. The Flexi Plus Sealer makes self-mailing easy and efficient, additionally offering a wide range of possibilities.

› Bigger sheet-feeder for up to 1,500 sheets optional

› The modular system can be configured for continuous forms at any time

› Four folding pockets permit single, letter, Z or double fold

› Symmetrical or asymmetrical fold

› Feeder for an enclosure in A6 format optional upon request

› Seals different types of paper with heat and pressure – even expired glue-coated documents

› Toner sealing requires no special paper; toner frames are printed together with the text in one step

› Easily comprehensible operation reduces training requirements

› Easy accessibility as well as simple and cost-effective maintenance even without service specialists

› Low TCO (Total Cost of Ownership) thanks to attractive purchase price and low maintenance requirements
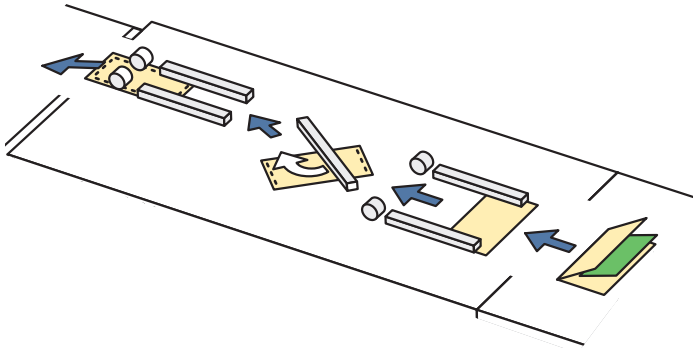
Technical Data
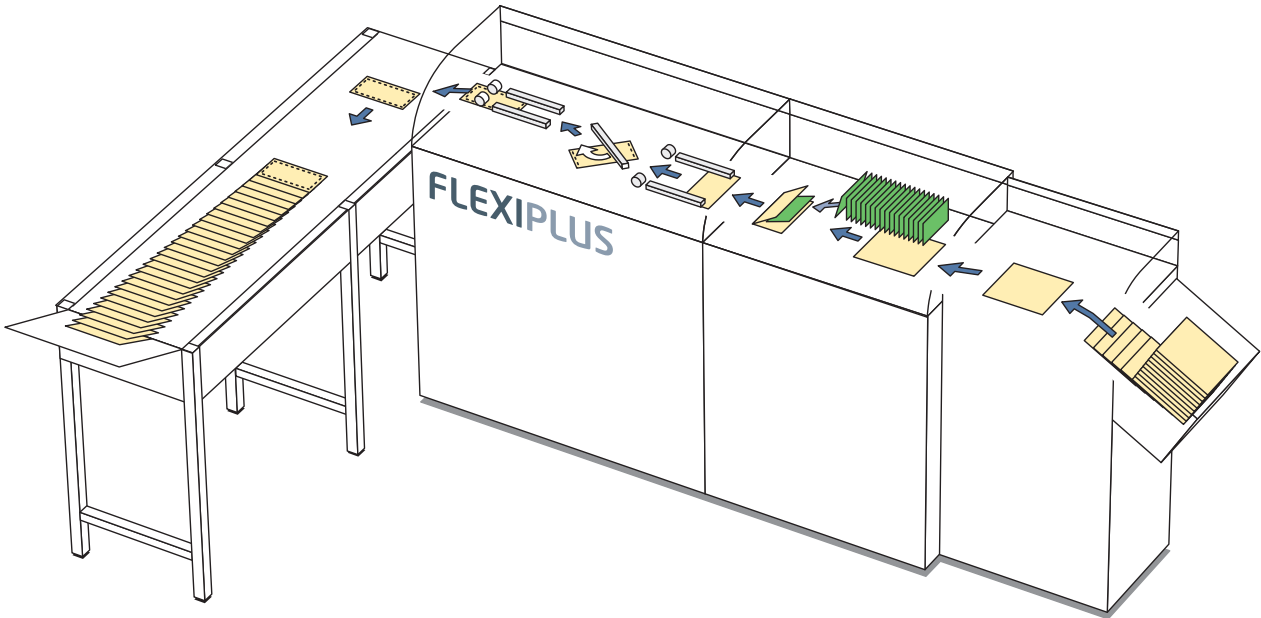
Max. performance

Without enclosure	up to 12,500 sheets/h	With enclosure	up to 6,250 sheets/h

Standard paper formats

Width	205 mm - 230 mm	Paper weight	70 - 140 g/m²
Height	11" - 14"	Other formats and paper weights upon request	

Paper quality

Standard copy paper	Glue-/chemically coated paper
Coated paper	

Standard features

Infeed and upright unit	Four pocket folding unit
4 cassettes with upper and lower heaters	4 pressure wheels
4 fully adjustable perforation knives	Microprocessor controlled
Conveyor stacker	Batch and total counter

Options

Cut-sheet feeder up to 1,500 sheets	Enclosure station (A6, 4 1/7" x 5 5/6")
2D or barcode reader at input or output	Unistacker (1,880 mm + 1,100 mm extension module)

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

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Sealight
Self-mailing with minimum space

The self-mailer Sealight is very easy to operate and offers an excellent price performance ratio. Processing up to 2,500 documents per hour, this compact sealer is perfect for handling small and mid-sized batches. Sealight is a highly flexible system, which can be configured to meet individual needs. The ability to seal documents securely through heat and pressure with optional perforation, make Sealight the ideal solution for sending sensitive contents. Low TCO with easy servicing and limited maintenance expenses make Sealight an attractive self-mailing solution.

Processing up to 2,500 documents per hour, Sealight is perfect for handling small and mid-sized batches. It also offers a wide variety of opportunities.

› Cut-sheet processing

› Optional connection to a printer

› Two folding pockets for single, C and Z fold

› Seals different types of paper through heat and pressure

› Perforation cutter available

› Efficient toner sealing

› Easy to use, low maintenance cost

› Optimized TCO
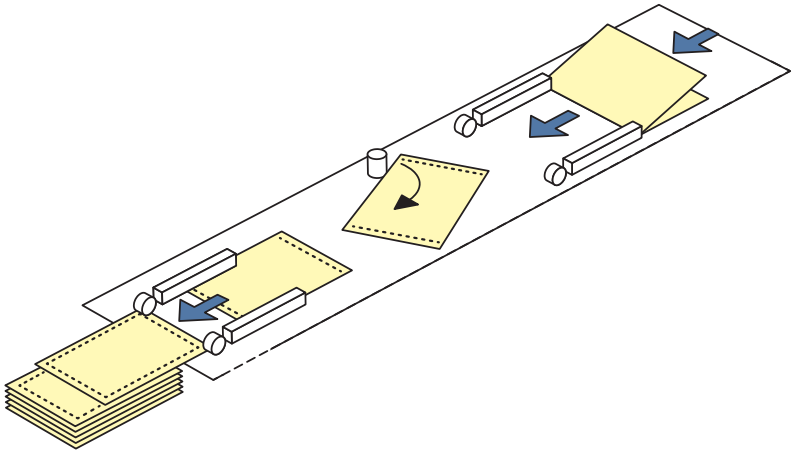
Technical Data
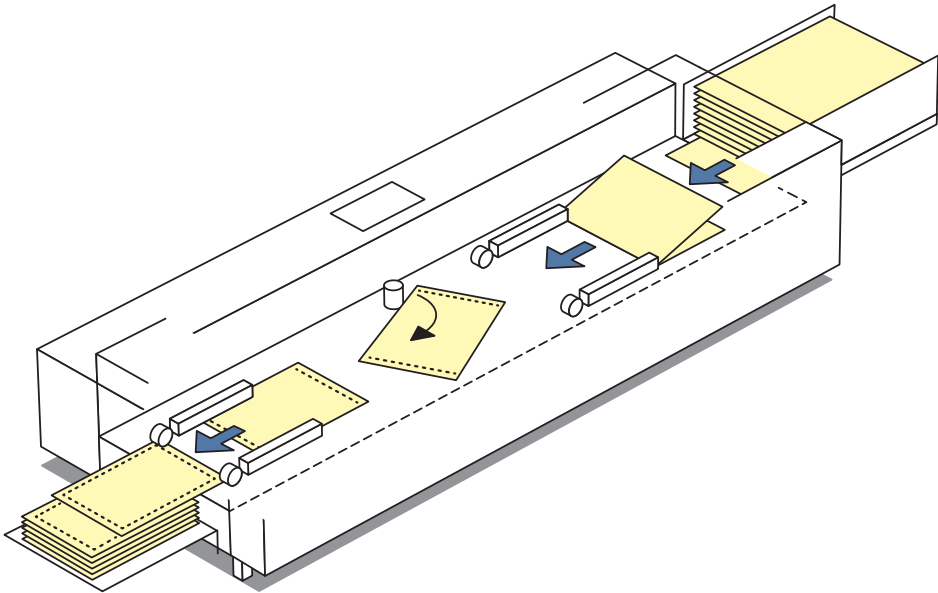
Max. performance

up to 2,500 sheets/h

Standard paper formats

Width	205 mm - 230 mm	Paper weight	70 - 140 g/m²
Length	8" - 12"	Other formats available upon request	

Paper quality

Standard copy paper	Glue-/chemically coated paper
Coated paper	

Standard specifications

Cut-sheet feeder for up to 50 sheets	4 pressure wheels
Two pocket folding unit	Jam detection
4 lower heaters	

Options

Online connection to printer	Counter
2D or barcode reader	Conveyor stacker
4 upper heaters	Floor stand
Teflon coated heaters	Burster or cutter for continuous processing
Perforation cutter	

Print2Seal
For customized mailings

Print2Seal is the perfect self-mailing solution for businesses looking for flexible and sustainable ways to independently customize their mailings. As an affordable solution for any office, Print2Seal offers an extra distinguishing feature as it can be linked to a standard laser printer, which opens up new opportunities in direct marketing. With a throughput of up to 3,000 documents per hour (single sided print), Print2Seal processes customized information material, flyers or quotes within seconds, from printing to folding and safely sealing.

Print2Seal can process up to 3,000 documents per hour, enabling any office to produce customized mailings easy and efficiently.

❯ Duplex online printing at a speed of up to 1,800 documents per hour

❯ Printer integration for customized mailings available

❯ Perfect for small volumes

❯ Two pocket folding unit for single and C fold

❯ Sealing and perforation on the short sides of the document

❯ Simple handling and quick amortization
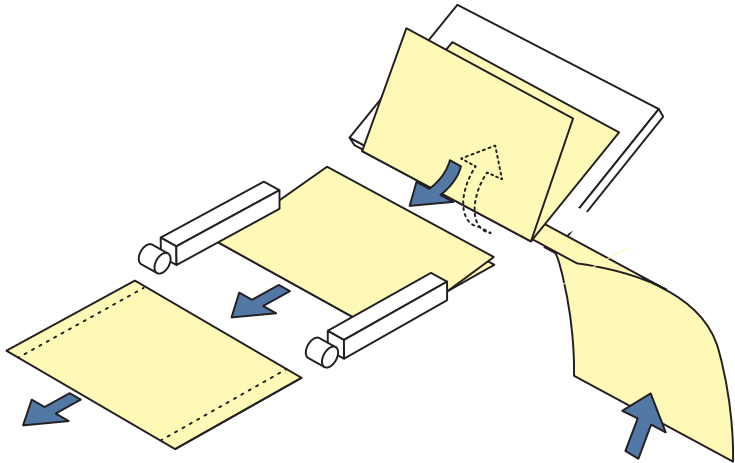
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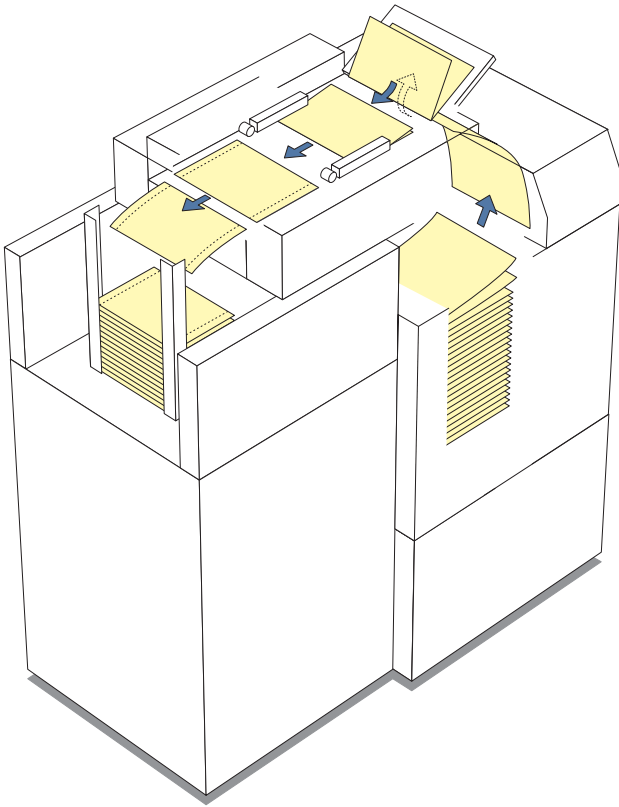
Max. performance

Single sided print	up to 3,000 sheets/h	Duplex print	up to 1,800 sheets/h

Standard paper formats

Width	A4/US letter	Paper weight	70 - 140 g/m²
Length	A4/US letter		

Paper quality

Standard copy paper		Glue-/chemically coated paper	
Coated paper			

Standard specifications

Two pocket folding unit		Floor stand	
Perforation on both of the short sides after folding			

Options

Laser printer with cut-sheet feeder		Batch counter	
2D or barcode reader		Cover to protect connection between printer and self-mailer	

Product portfolio
Sorting

	Max. performance env/h	No. of sort bins	Mailpiece length	Mailpiece width	Mailpiece thickness	Mailpiece weight	Automatic feeder	Manual feeders
Simex Letter	47,000	24 - 192	85 - 229 mm	140 - 324 mm	up to 8 mm	2 - 100 g	●	
Simex Multi	8,000	6 - 126	130 - 381 mm	87 - 305 mm	up to 50 mm	3 - 2,000 g	●	●
Simex Packet	28,000	> 500	up to 750 mm	up to 350 mm	up to 200 mm	up to 15 kg	○	●

	Format detection	Thickness detection	Barcode scanner	OCR reader	Video coding	Dynamic weighing	Dynamic printing	Secure labelling
Simex Letter	●	●	●	●	○	○	●	○
Simex Multi	●	●	●	●	○	●	●	○
Simex Packet	○	○	●	●	●	●	●	○

● Standard
○ Option

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

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The new generation
of mail sorting systems

DL→C4
#10→9 x 12

8 mm

47,000 env/h

24 - 192

€

low TCO

< 70 dB (A)

SIMEXLETTER

Outstanding sorting technology
Unmatched performance

The market of private mail service providers is characterized by continuous change, technical developments and tough competition. With Simex Letter, BÖWE SYSTEC offers an appropriately flexible and efficient solution. It is perfectly tailored to the requirements of small and medium-sized mail service providers and based upon proven and worldwide established technology. The modular system allows a throughput of up to 47,000 envelopes per hour. Even large formats such as B5, C4 or Flats can be processed smoothly and reliably at high speed. In addition, Simex Letter achieves optimal results in sequencing. The new and intuitively operable software BÖWE Sort provides a high level of operator friendliness, matching the ergonomic design of the system and improves productivity.

Outstanding sorting technology with lowest mechanical reject rate

Broadest spectrum of formats from DL to B5 and even up to C4 for mixed mail

Best **OCR technology** in the industry for best possible reading performance

High availability and low wear result in low **Total Cost of Ownership**

User-friendly due to especially **ergonomic design**

Flexible software platform **BÖWE Sort** for customized solutions and easy operation

Diverse functionalities
at the highest level of quality

The outstanding sorting technology of Simex Letter offers professional and reliable mail sorting at highest possible levels. At a throughput rate of up to 47,000 mailings per hour the patented guidance channels ensure low mechanical reject count. Industry leading OCR-reading technology guarantees highest reading rates throughout the whole sorting process. Thanks to its modular design, Simex Letter can be perfectly adapted to individual customer requirements. The compact and ergonomic design of the system in combination with low TCO make Simex Letter an ideal investment into the future.
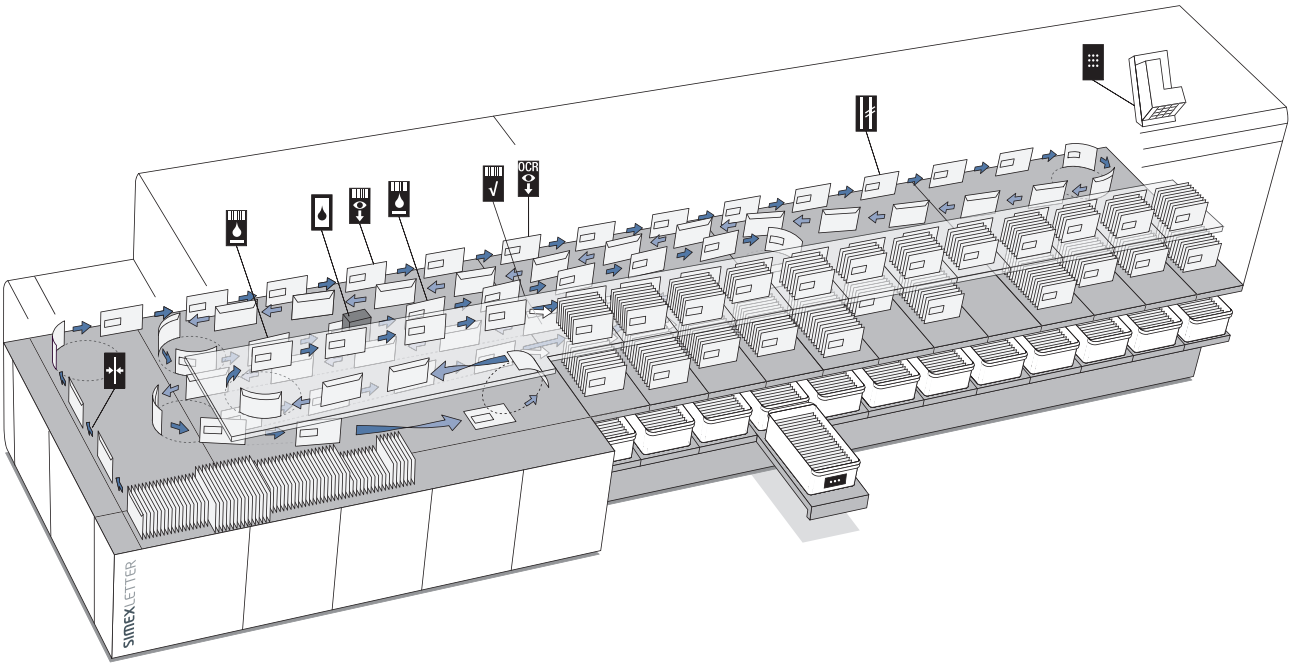
Thickness measurement unit
Determines the thickness of each mailpiece. In combination with mailpiece length and width (determined via OCR), the approximate weight can be calculated.

Barcode reader
For front and/or rear, reads black or fluorescent ink.

OCR reader
Market-leading technology with highest resolution enables extremely high reading rates.

Doubles detector
Prevents sortation errors due to stuck-together mailpieces. Doubles are stacked in a special divert bin.

Barcode printer
For front and/or rear of envelope. Prints either with black or fluorescent ink.

Graphic printer
Monochrome printing of operator logo, customer logo, franking, barcodes or sortation information.

Barcode verifier
Quality check of codes printed within the system.

Label printer
Prints barcodes or sortation information for labelling post boxes.

Scale (available shortly)
Dynamic weighing of the mailings.

Ergonomic design
User-friendly in every respect

Besides top-performance Simex Letter provides optimal working conditions as well as simple and easy handling. 95 percent of all men and women can operate Simex Letter ergonomically. Due to this system's compact and ergonomic design, usually only a single operator is needed. Additionally, Simex Letter scores with easy accessibility, reduced noise level and low maintenance requirements.

> Compact design

> Operation from a single side on two levels

> Ergonomically perfect for 95 percent of men and women

> Machine operation by one person possible

> Low noise level < 70 dB (A)

> Easy access to all components

BÖWE Sort
The modern sorting software

The new software platform Orbiter has also introduced a new software generation to mail sorting: BÖWE Sort. BÖWE Sort is a flexible software system allowing customized solutions for individual requirements. The universal design of the software for all BÖWE SYSTEC installations and the intuitive usability permit significant increases in productivity. The use of state-of-the-art technology and continuous development ensure future expandability of BÖWE Sort and guarantee highest possible protection of investments.

> Uniform software for all BÖWE SYSTEC mail sorting systems reduces training requirements and adds to increase of productivity

> Upward compatible to new operating systems such as Windows 7

> Backward compatible with existing BÖWE SYSTEC software solutions

> For customers with full-service contracts the change from WinSort to BÖWE Sort is possible at any time and free of cost

> Universal design allows for simple and intuitive operation via touchscreen

> Offers all required interfaces to ERP systems of private mail service providers such as CodX PostOffice, ProMail or EasyPost

> Numerous options for enhancement

BÖWE SYSTEC
2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

Sorting

Software

Service
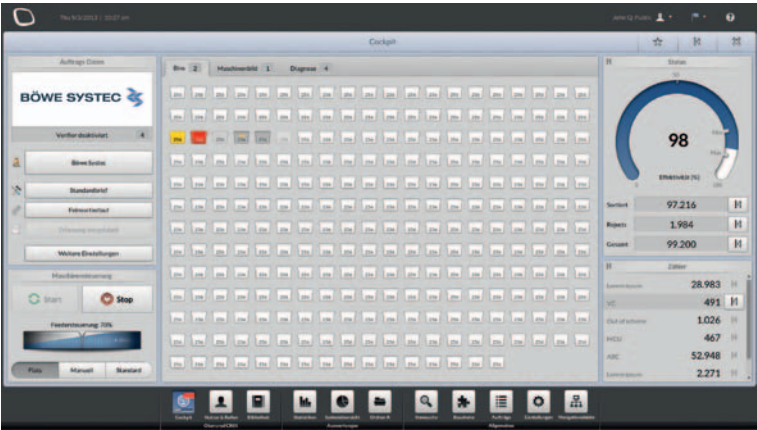
BÖWE Sort allows simple and intuitive preparation of sorting runs (setting mode of operation, sorting scheme, etc.)
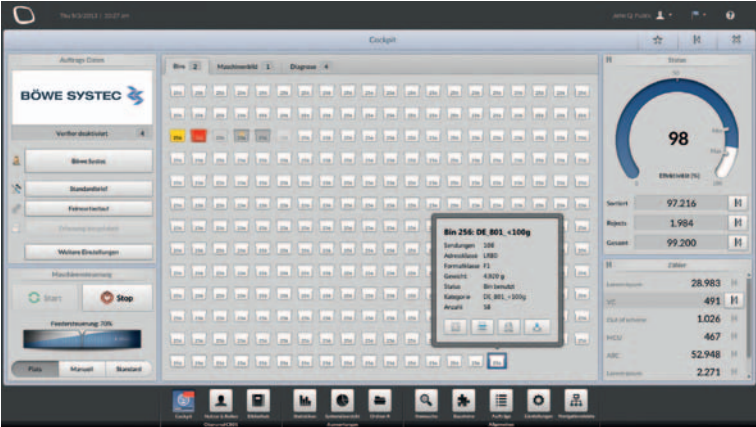
Simple and clearly arranged configuration and monitoring of integrated devices such as printers or scales with the BÖWE Sort Device Manager
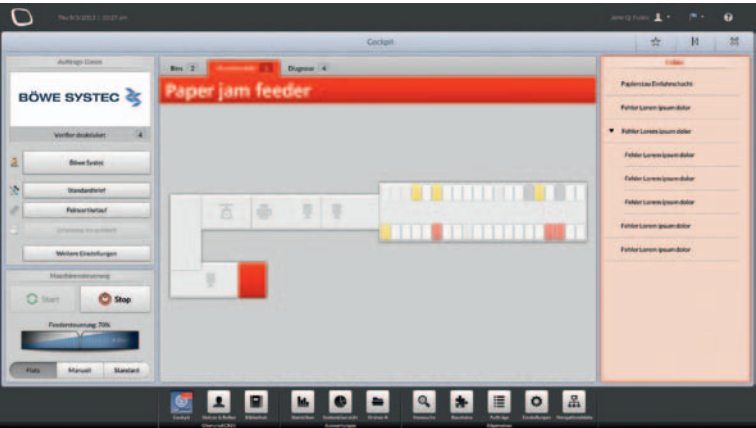
BÖWE Sort monitors the sorting runs and supports easy localization and trouble-shooting in case of errors by virtually displaying the machine layout

Intuitive creation and processing of print layouts

Technical Data

BÖWE SYSTEC
2013/2014

Inserting

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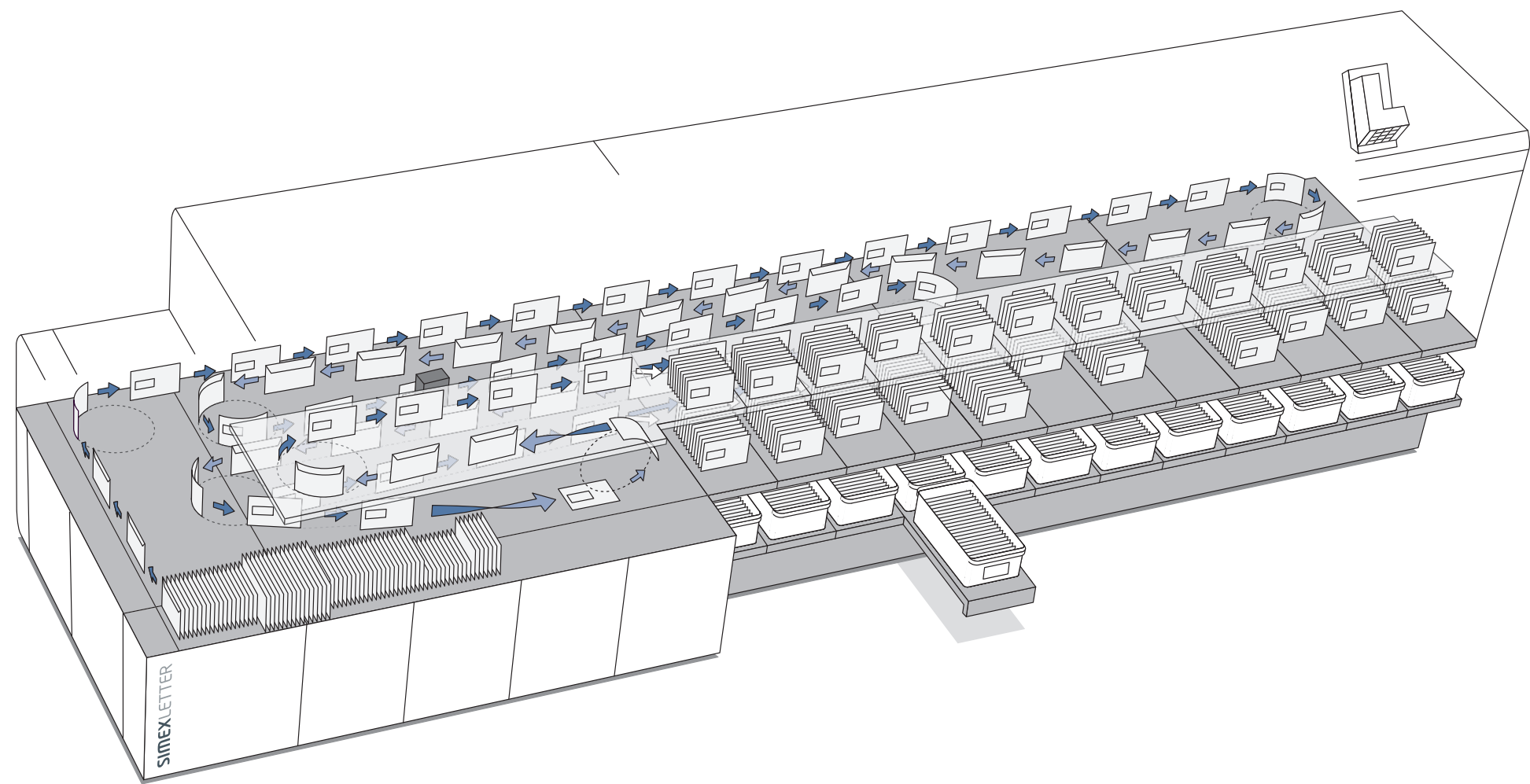
Max. performance

DL, B5	up to 47,000 env/h	Mixed mail incl. C4 or 9 x 12 (up to 20 %)	up to 42,000 env/h
#10, 6 x 9			

Sort bins

Quantity	24 - 192

Sort bin capacity

350 mm in upper level	440 mm in lower level

Envelope formats

Width	140 mm - 324 mm	Weight	2 - 100 g
Height	85 mm - 229 mm		

Max. envelope thickness

0.15 - 8 mm

Software

Trendsetting
software solutions
for the modern mailroom

BÖWE SYSTEC
2013/2014

Inserting

Card Logistics
and Mailing

Options for Inserting
and Card Mailing

Self-Mailing

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Orbiter
The smart navigation platform

In this "Age of Smartphones" we have become used to easily operable and clearly layed out apps. For exactly that reason BÖWE SYSTEC has conceived a solution making the advantages of modern software available in an industrial environment – Orbiter. To an unprecedented degree Orbiter makes all individual programs (apps) easily accessible which are involved in the workflow of the complete mailroom.

Orbiter offers all apps in a marketplace not restricted to BÖWE SYSTEC apps but also containing software provided by partner companies: Orbiter Shop. Whatever is needed for the workflow is chosen there and made available for use. Structure and layout of the app icons in the navigation bar can be fully customized. This smart navigation solution allows the arrangement in any order or structure making complex things easy and comprehensible. Best of all: Orbiter is free of charge.

Orbiter Navigation for a well-structured mailroom workflow

Find the suitable app for every task in the **Orbiter Shop**

Self explanatory, **simple and intuitive operation**

Pay as you grow, only purchase app functions actually required

Efficient work procedures and **increased productivity** by displaying the individual workflow on a single platform

Standardized design for more clarity

Orbiter Navigation
for a well-structured mailroom workflow

Orbiter is a state-of-the-art navigation tool for organizing and structuring the whole workflow in the mailroom. Customers decide for themselves what the structure should look like. Orbiter makes the navigation of all mailroom apps possible – from pre-production and order management to machine control. This finally ends the change from one program to the next from different manufacturers, which is typical in today's environment.

Orbiter can do even more: Each user is shown only those apps required for his specific task in the chosen language.

For instance, the system operator is only able to see icons calling up apps for machine control. All other apps are not

accessible and not visible for him. Orbiter lifts current complexity to a new level of simplicity in software usability.
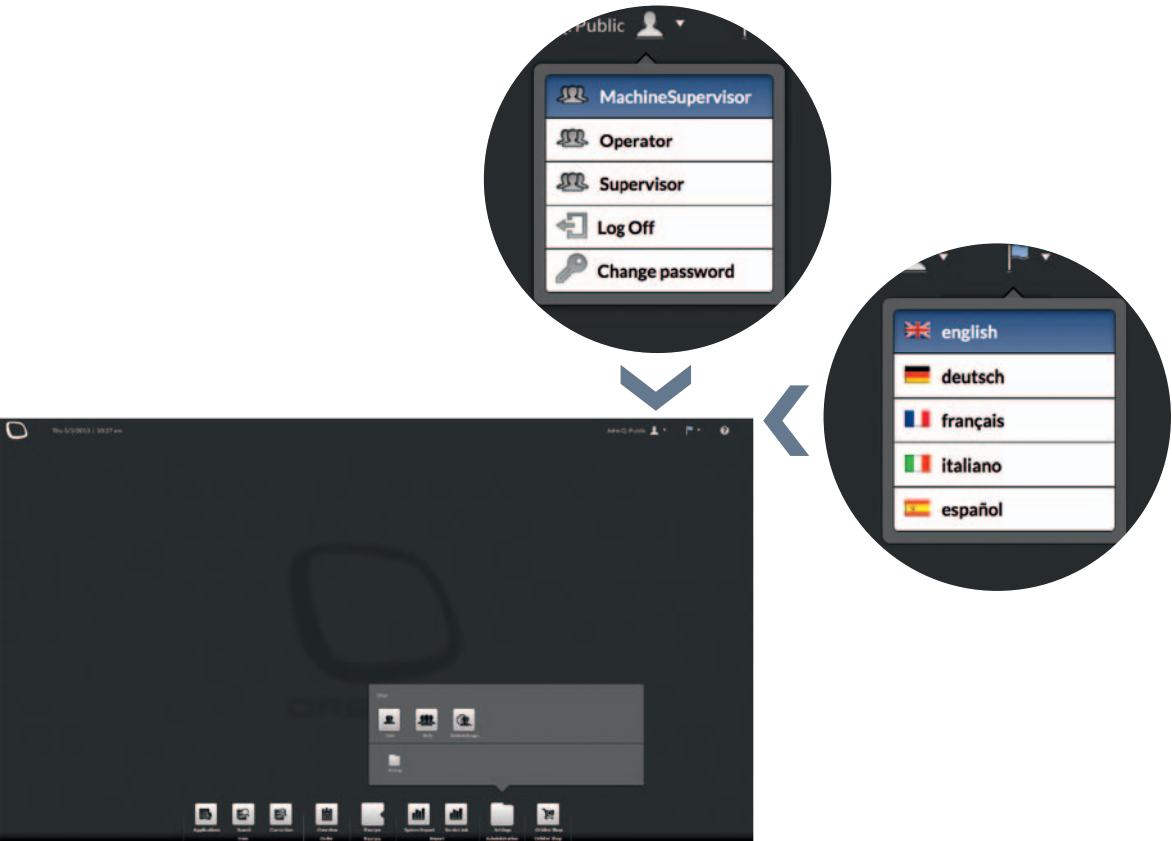
The Orbiter Shop
The right app for every task

Orbiter Shop is the marketplace where all apps are available and presented grouped into categories. Customers can individually combine apps according to their workflow. The Orbiter Shop includes BÖWE SYSTEC apps for control and management of inserting, card logistics and mailing, as well as sorting systems and apps related to the higher-level management of job preparation and processing.

Apps of partner companies in affiliated areas such as output management, printroom and other functions will be available for download in the near future. The choice of appropriate apps displays the individual workflow in an ideal way without including unnecessary functions. Preview and details provide further information on individual apps and thus assist the user in choosing the right combination of suitable apps. The vital advantage: You only pay for what you need.

BÖWE Cockpit
Smart man-machine interface

BÖWE Cockpit contains apps required for installation, control and monitoring of an inserting system. The basic configuration of BÖWE Cockpit consists of System Operation, Recipe for simple job creation as well as Report for creating order driven reports. Further options are continuous item tracking and Computerized Weighing/Computerized Optimizing (CW/CO) which calculates the weight of the mailpiece and makes this data available for post-processing, such as franking or sorting.

BÖWE Cockpit System Operation
Intuitive user navigation

A completely new user interface as well as the graphically supported navigation of BÖWE Cockpit ensure intuitive and simple system operation via state-of-the-art touchscreens. The system guides the user through order processing: For each situation, only currently useful control elements are activated and logical processing steps are highlighted in color. A virtually text-free user interface ensures user friendliness. An interactive help function assists in manual set-ups or troubleshooting.

Intuitive system operation with BÖWE Cockpit:

> Minimal training requirements due to self-explanatory, simple and intuitive operation via touchscreens

> The striking design of set-up information shows where exactly manual intervention by the operator is required within the system

> With the app **BÖWE Cockpit Reading**, for example, reading results can easily be understood and settings adapted if necessary
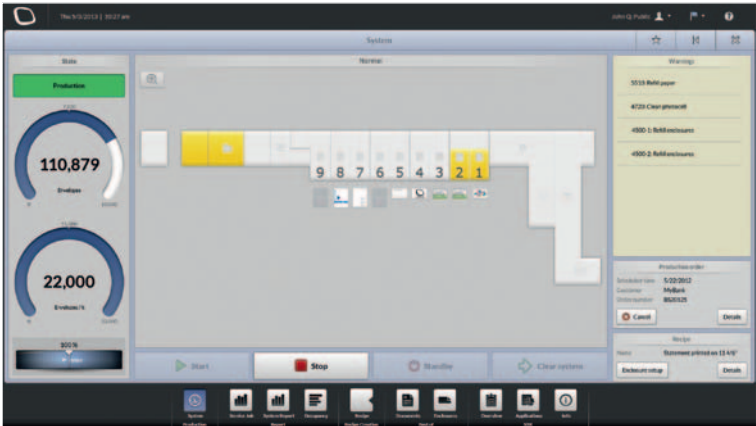
BÖWE Cockpit Recipe
Material description instead of programming

The app Recipe supports the user in describing the characteristics of the material to be processed and prepares the machine for processing. Detailed knowledge of the system is not required for job programming. The material description can also be created centrally and once created recipes can be transfered to other machines without difficulties.

> A wizard comfortably guides the user through recipe and material creation

> The description of visible material characteristics such as height or width is fully sufficient for creating a recipe, programming is not required

> New recipes can be easily and quickly assembled with pre-defined material modules

BÖWE Cockpit Report
Machine-oriented reporting

BÖWE Cockpit Report offers multiple reporting opportunities on a system level. This is a crucial advantage when new conditions require action or for advanced planning of future processes. Precise and specific production and shift reports assist in maximum utilization of the system capacity and support the analysis of completed jobs. As an additional benefit, BÖWE Cockpit Report is easily extendible by additional reporting apps from the BÖWE One area.

> **BÖWE Cockpit System Report** monitors the efficiency of production processes and capacity utilization

> The **BÖWE Cockpit Service Job** app uncovers potential for optimization at component level and provides service personnel with valuable data for more efficient system usage

> **BÖWE Cockpit User Report** for analysis at the operator level

> **BÖWE Cockpit Shift Report** as the basis of targeted production and shift planning
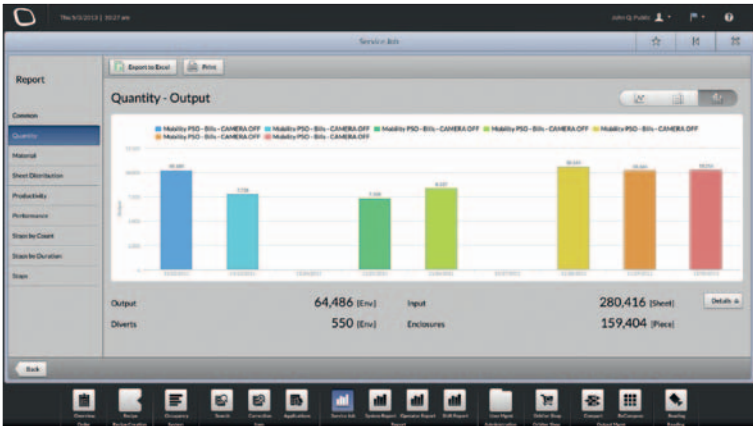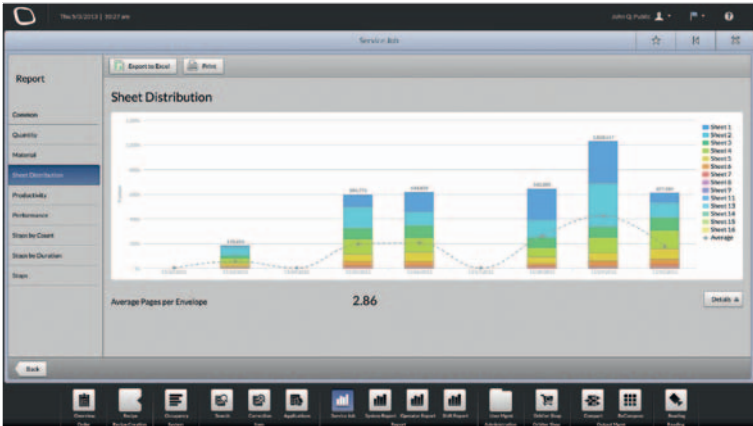
BÖWE Cockpit Item
Reliable item identification

BÖWE Cockpit Item Tracking records document processing in detail and offers highest integrity. Every document is monitored during the whole process. Item Database performs a comparison of a target list in a common format against what was actually processed. This guarantees the accuracy and completeness of the whole production process. Reprint data is generated automatically at the end of a job.

Bills, reminders, or bank statements: BÖWE Cockpit Item details the production progress of every single document. It guarantees highest integrity during the entire production procedure

> **BÖWE Cockpit Item Search** makes finding specific items and documents easy

> With **BÖWE Cockpit Item Correction**, the status of individual items can be accessed quickly and easily with a handheld scanner and manually corrected if necessary

BÖWE One
Modern mailroom management

BÖWE One offers a multitude of apps with central, cross-system functions from four basic modules. Output Management reliably prepares ready-for-print data streams, Production Management monitors the complete production process, Item Management ensures continuous item tracking and Order Management takes care of clear job management. BÖWE One supplies the answer to all requirements of an Automated Document Factory (ADF). BÖWE One delivers exact real-time data, database controlled production and guarantees highest quality and integrity. The optimal planning of the workflow additionally enables the ideal resource utilization and maximum productivity.

BÖWE One Output Management
Optimized print preparation

Output Management can prepare, modify and optimize data ready for printing across systems and offers all possibilities for centralized management and structuring.

Output Management for instance allows grouping of similar jobs and optimizes the workflow to create maximum output and timely dispatch. Data for accounting with mail service providers is also generated. This finally results in improved processing of mailings and reveiling of optimization potential in production resulting in significantly increased mailroom productivity.

› **BÖWE One Convert** for reliable conversion of data ready for printing

› **BÖWE One ReCompose** for modifying the printstream, for intelligent processing and as a basis for continuous document-tracking by generating control files or applying codes

› **BÖWE One ReCompose Pro** for centralized, database-controlled management and optimization of print data

BÖWE One Production Management
Reliable production process management

BÖWE One Production Management supplies accurate real-time data of the complete production process – from data preparation up to mailing. This allows detailed monitoring and analysis of all production orders and resources. The comprehensive system overview, precise job analysis, exact operation data and optimum production preview increase planning reliability and productivity in the mailroom. Shorter reaction times through continuous information flow enable on-schedule production.

Precise analysis functions of BÖWE One Production Management permit optimum utilization of resources, an efficient organization of the production process and the achievement of maximum output. Adaptation to changed conditions and integration of third party systems are quickly possible.

› **BÖWE One System Usage** shows free capacities

› Tabular and graphic **reports** for illustrating the system's performance figures and data

› **BÖWE One Key Performance Indicators (KPI)** for analyzing individual performance figures

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

BÖWE One Item Management
For exact document identification

Ensuring integrity and producing mailpieces with the correct content are essential signs of quality in the mailroom. BÖWE One Item Management comprises the heart of a professional Automated Document Factory (ADF) and provides closed loop processing.

BÖWE One Item Management manages and tracks each document through the complete production process by continuously verifying the status information from the database with real-time data of the actual processing. Defective documents are identified, diverted and the automatic reprint process is initiated. This high degree of security, integrity and extensive automation contributes considerably to increased output. BÖWE One Item Management apps increase processing security and quality in the mailroom:

> **BÖWE One Item Site** for supervision and control of items across multiple systems

> **BÖWE One Item Workflow** for cross-process supervision and control of items

> **BÖWE One Item Multi Site** for supervision and control of items across different sites

> Different **reporting functions**, e.g. for determining the number of mailings per weight-class or cost center or for determination of consumed material
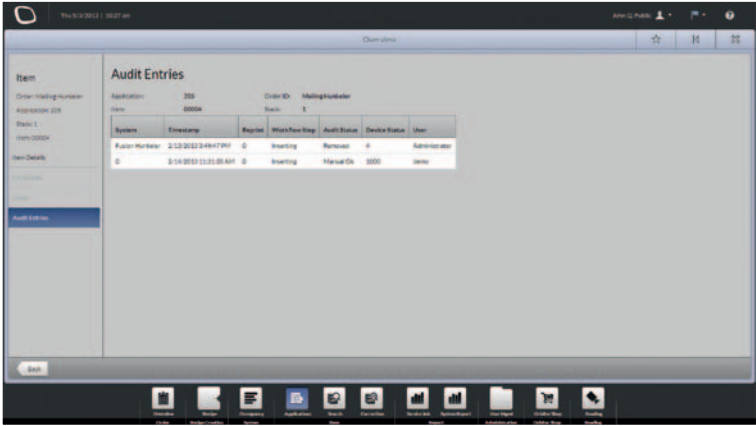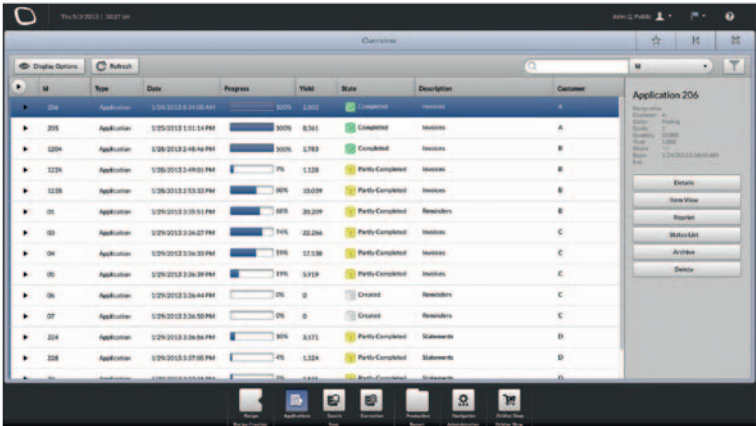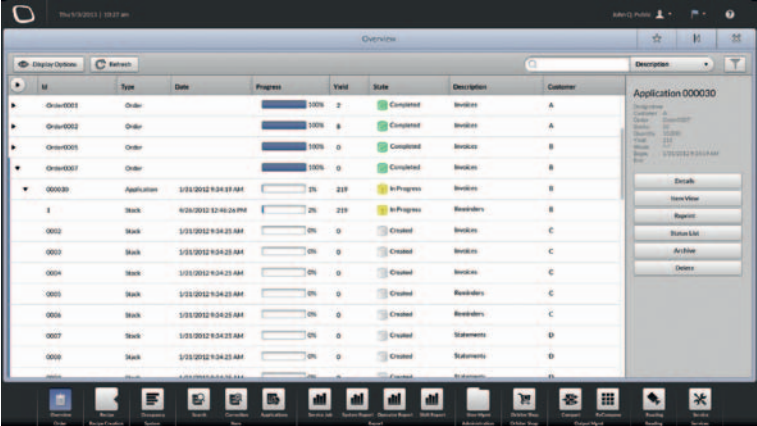
BÖWE One Order Management
Clearly arranged order management

A job in the mailroom is split into several individual jobs across different systems. To date, the processing of individual jobs could only be monitored separately, but now BÖWE One Order Management makes it possible to track individual jobs as well as the initial overall job. This empowers mailroom managers to achieve a comprehensive overview by monitoring, tracking and analyzing complete jobs.

The apps of BÖWE One Order Management consist of:

> **BÖWE One Order Overview** for comprehensive display of jobs and thus reliable and efficient processing

> **BÖWE One Alerting** notifies the Mailroom Manager in case of problems, as soon as production targets have been achieved and reliably reminds staff of scheduled tasks and jobs

BÖWE SYSTEC 2013/2014

Inserting

Card Logistics and Mailing

Options for Inserting and Card Mailing

Self-Mailing

Sorting

Software

Service

Service

Global presence
with local expertise

flexible offers

extensive technician network

quick response times

spare parts service

state-of-the-art measuring technique

quick installation and backup

0%   100%

24/7

A one-stop
service

A top quality product deserves the best possible service. That is why BÖWE SYSTEC always makes sure to offer customized service solutions. Our local sales and service teams are well versed in all of our customers' specific needs. We excel in providing knowledgeable support and quick response times to ensure maximum uptime – this is our strength. Whether it's installing a system or providing preventative maintenance, training, software support or overnight delivery for spare parts – we are always at our customers' disposal.

In addition to our BÖWE SYSTEC systems and software, we will also service all production mailing systems upon request, e.g. print, pre- and post-processing, sorting or other third party products in the mailroom. Experienced BÖWE SYSTEC technicians and state-of-the-art equipment guarantee quick expert knowledge whenever necessary – a true one-stop service for all mailroom needs.

❯ Our service hotline and on-call service is available 24/7 for assistance

❯ Quick instant help via remote support or a technician in your area

❯ Guaranteed spare parts delivery just-in-time

❯ Backup solutions to ensure production continuity at all times

❯ Qualified training and education for service personnel

❯ Acceptance tests of all systems at the BÖWE SYSTEC production site and on-site installation by experienced BÖWE SYSTEC technicians

❯ Routine service and preventative maintenance in accordance with DIN 31051

❯ Software support

Customized
service solutions

One system can be very different from the other, and applications may vary widely. Maintenance procedures can therefore be customized for every mailroom individually – from a one-off maintenance to a full servicing contract. We help to keep the performance as well as the availability of all systems at the highest levels – for smooth and steady operations in the mailroom. And, naturally, we are available to assist around the clock and seven days a week.

Our customers have the choice: From the standard contract and several full-service options to the all-inclusive package with a qualified BÖWE SYSTEC technician on site, we offer the perfect service solution for any mailroom. Numerous packages allow for real flexibility and the right customized service for all our customers:

❯ Exclusive on-call duty, extended call hours available upon request

❯ Qualified call back

❯ Specialized service hotline for Sorting

❯ Deployment of on-site technicians

❯ Provision of service personnel

❯ Optimization of internal processes

❯ Outsourcing

❯ Customized software development or Software Maintenance Agreement

❯ On-site consignment stock

	Number of preventative maintenance visits per year	Working hours, travel for preventative maintenance	Availability between preventative maintenances	Reaction time in case of malfunction	Spare parts
Basic-Service	2 - 6	●			
Full-Service limited by hours, volume or spare parts	2 - 4	up to pre-defined limit	up to pre-defined limit	from 4 hours	up to pre-defined limit
Full-Service	2 - 6	●	●	from 4 hours	●
Deployment	continuously	●	●	immediately	●

● Included

BÖWE SYSTEC worldwide
Global competence

All around the globe BÖWE SYSTEC supports you as an innovative and deeply committed partner when it comes to questions and requirements in the modern mailroom. Details of our contacts in the various subsidiaries and general representatives around the world can be found here.

■ Subsidiaries
■ General Representatives

Subsidiaries
Always there for you

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Icon legend

	Card format		Max. filling thickness		No. of sort bins
	Coverage		Max. input capacity		Noise level
	Design		Max. integrity		Operation
	Envelope formats		Max. mailpiece thickness		Paper formats
	Flexibility		Max. no. of cards per carrier		Processing (Card Mailing)
	Footprint		Max. performance (Card Mailing)		Processing (Inserting)
	Installation		Max. performance (Inserting)		Processing (Sorting)
	Low invest		Max. performance (Self-Mailing)		Productivity
	Maintenance		Measuring technique		Reading technology
	Max. card storage capacity		Modularity		Response time
	Max. card thickness		Navigation		Service
	Max. enclosure thickness		No. of channels		Single Machine Type Strategy (SMTS)

Imprint

The illustrated systems have been configured as trade show exhibits or are prototypes
and may be subject to technical modifications or errors.

www.boewe-systec.com