

The revolution in high-performance inserting



B6+→B4
#7 3/4→Flats



22,000 env/h



10 mm/0.4"



1 channel



100,000 sheets/h



15 mm/0.59"



FUSION X

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.

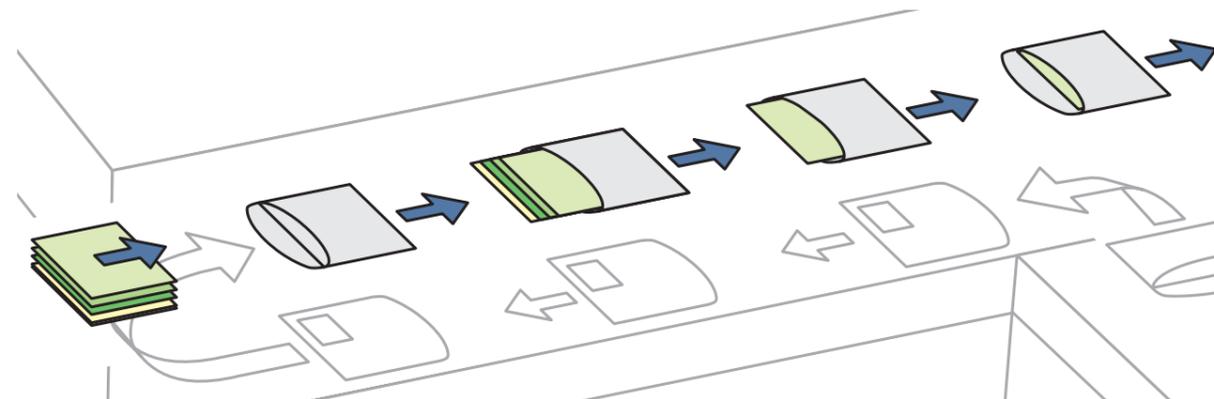


With Fusion Cross BÖWE SYSTEC has reduced and harmonized the overall speed of insertion by maintaining the material flow at a constant speed which, as a result, leaves substantially more time to perform the actual inserting procedure. The individual processing steps take place with slightly offset timing,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

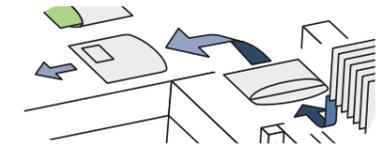
- › Maximum process security by optimization of material speeds
- › Gentle and reliable processing of common and challenging material due to protective guiding elements
- › Reliable production due to low-wear servo technology and gentle processing



Taking advantage of physical laws

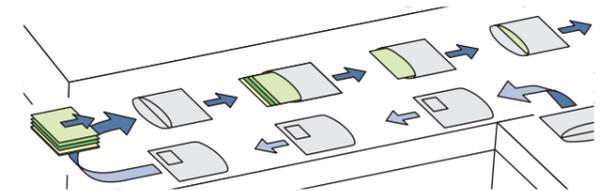
1 Redirect and turn-over

- › 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



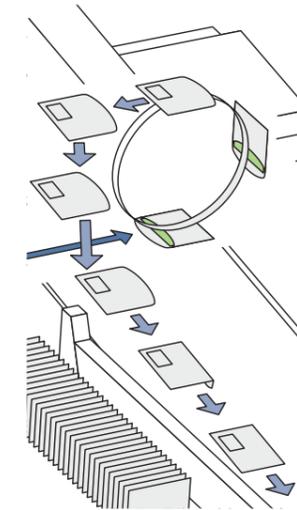
2 Inserting procedure

- › 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

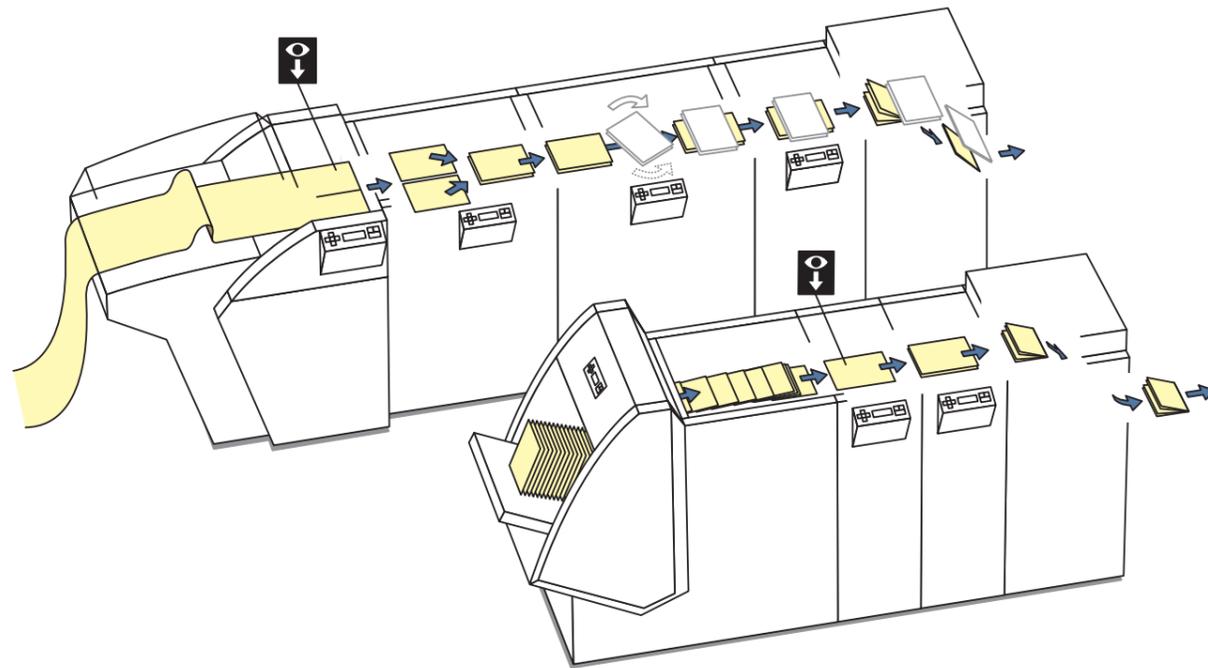
- › Redirection of the open, filled envelope while running at full speed
- › Redirects even rigid filling material without a problem
- › Closes envelopes and ejects them face up, ideal for post-processing



Cutting edge infeed technologies

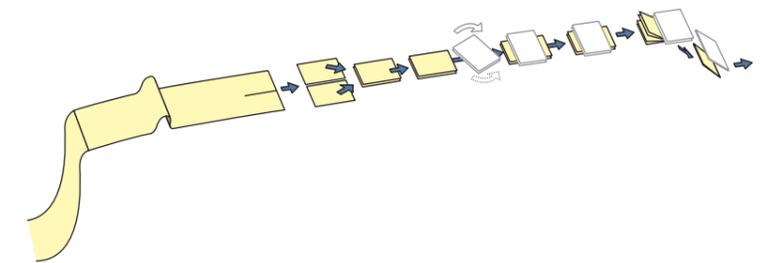
provide maximum performance

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.



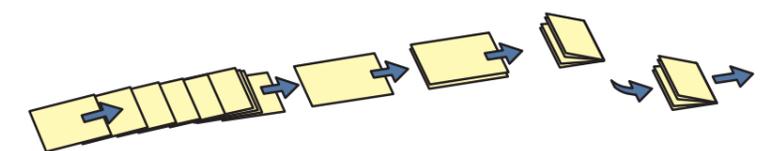
1 Continuous processing

- › 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



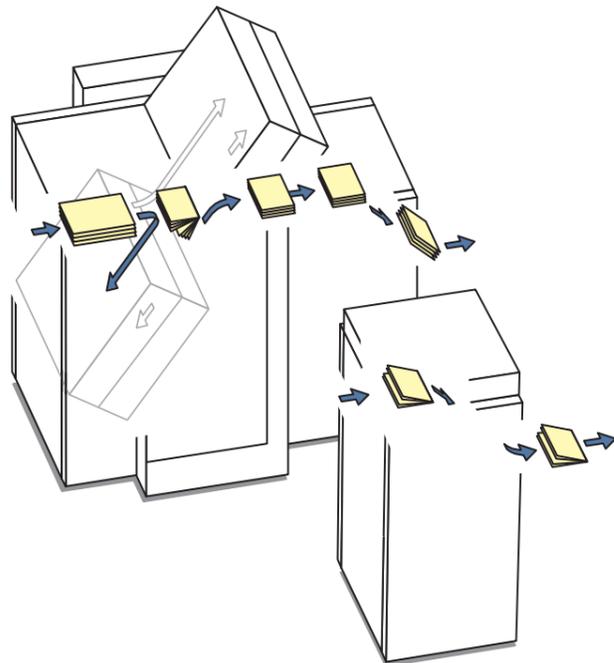
The perfect fold at maximum speed

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

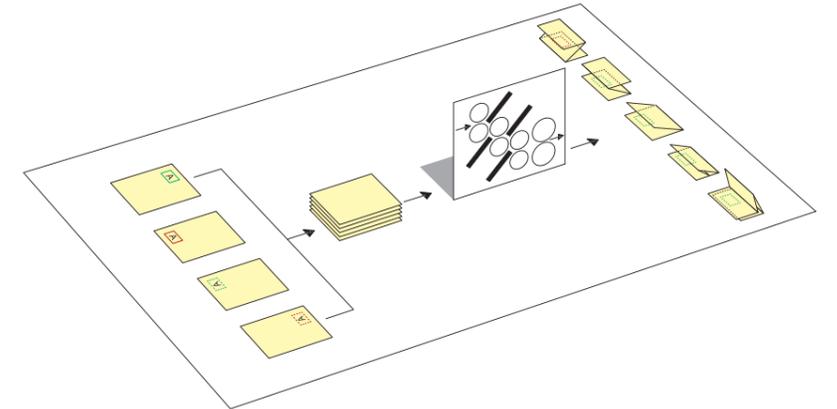
pocket folding unit offers high flexibility with regards to the feeding direction and the type of fold. It can fold up to 16

sheets at once (single fold). Both folding modules offer assembling before and/or after folding.



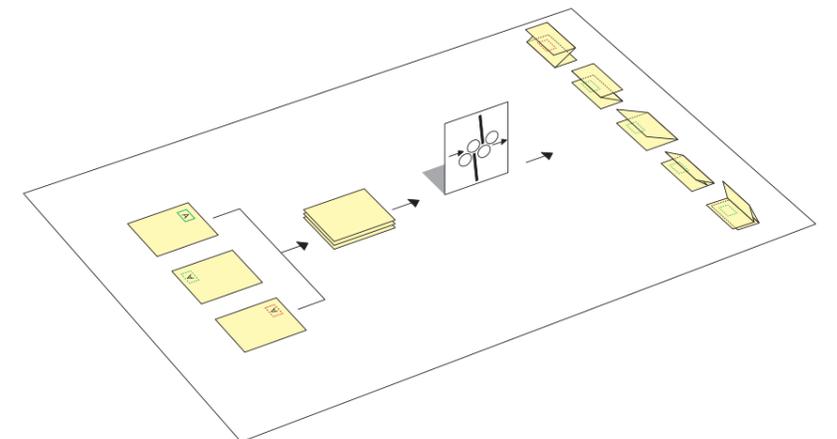
1 Heavy-duty four pocket folding unit

- › 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



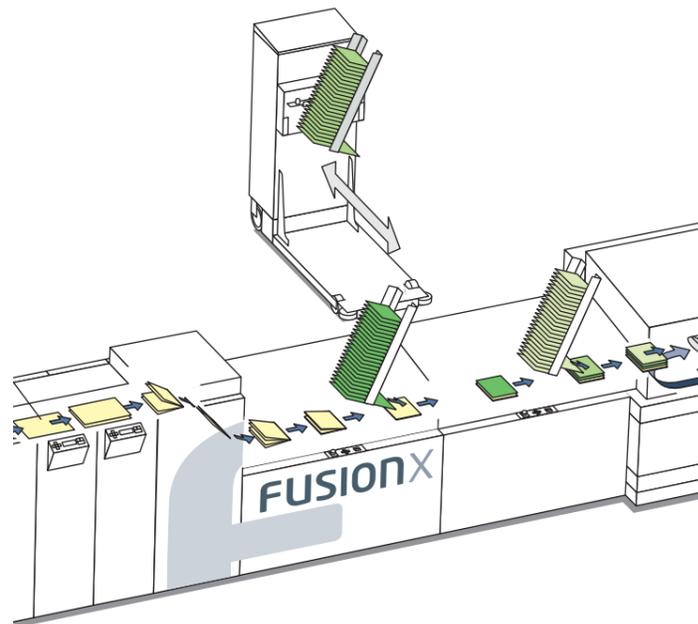
High enclosure flexibility for highest possible investment protection

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



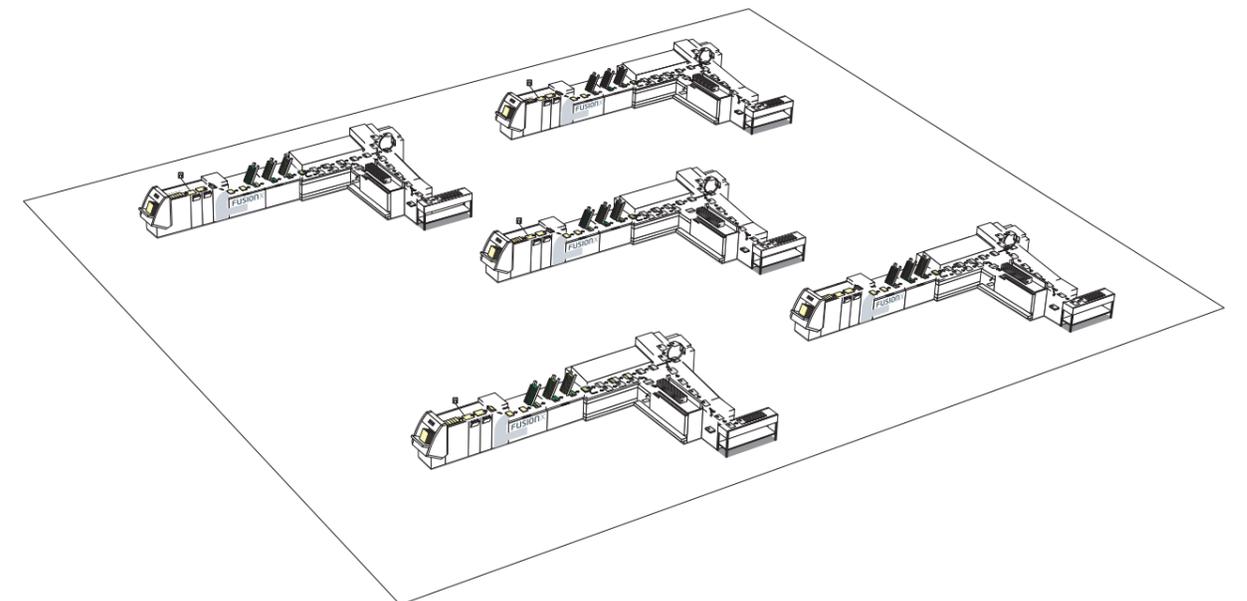
A high-performance inserting system for all applications

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.



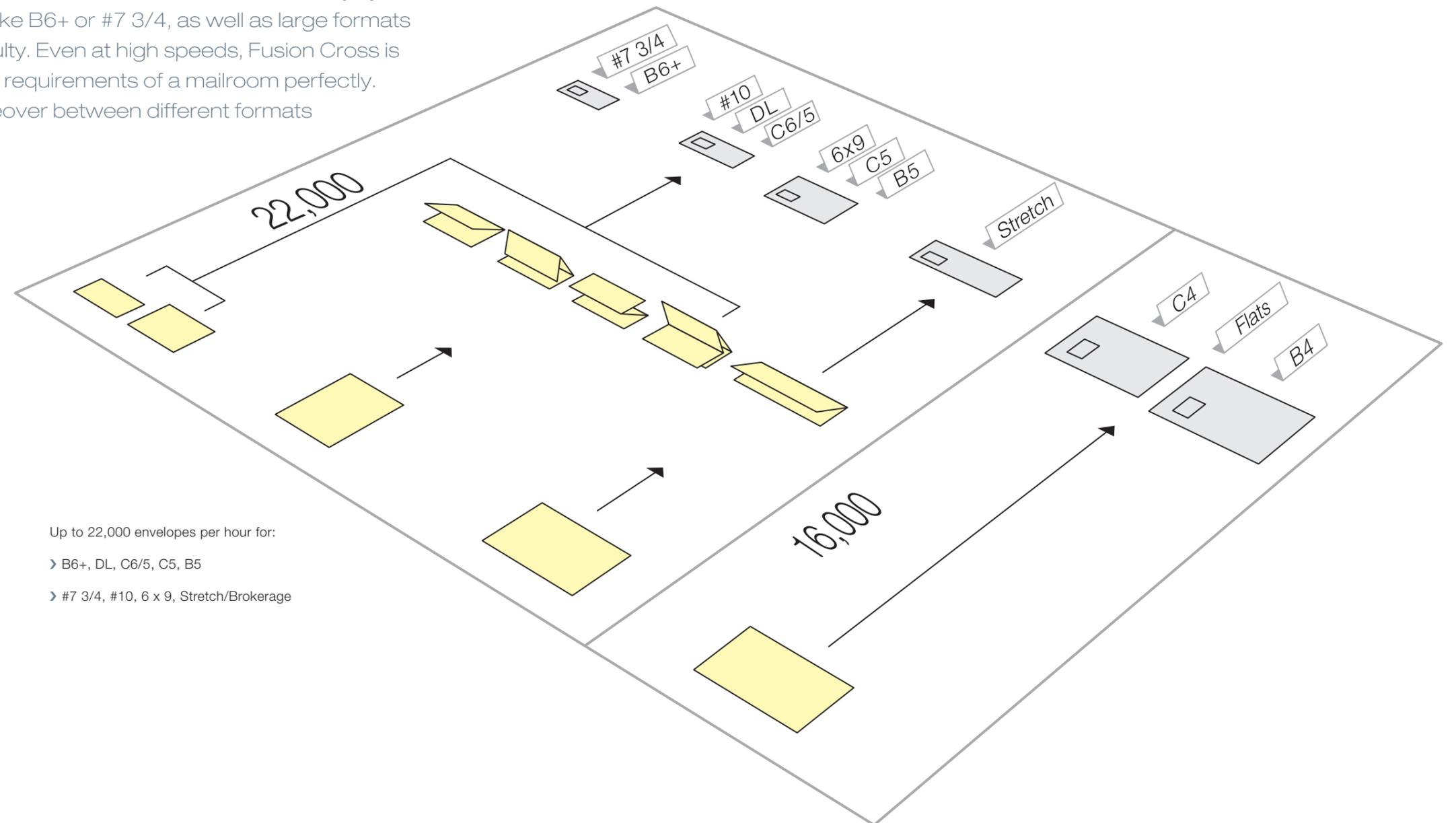
SMTS – Single Machine Type Strategy:
A high-performance inserting system for all applications.

- › 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.



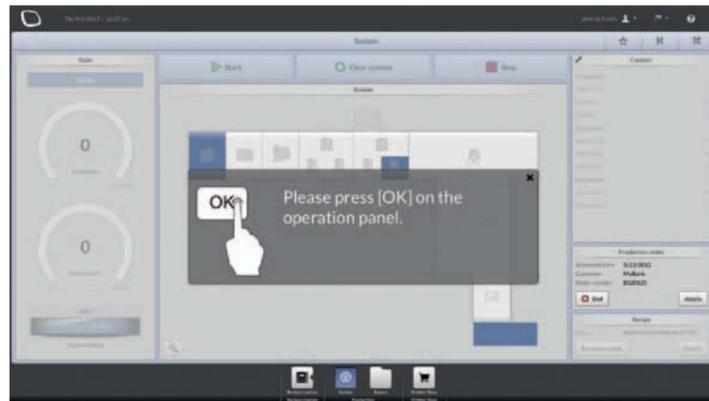
BÖWE Cockpit

Smart man-machine-interface

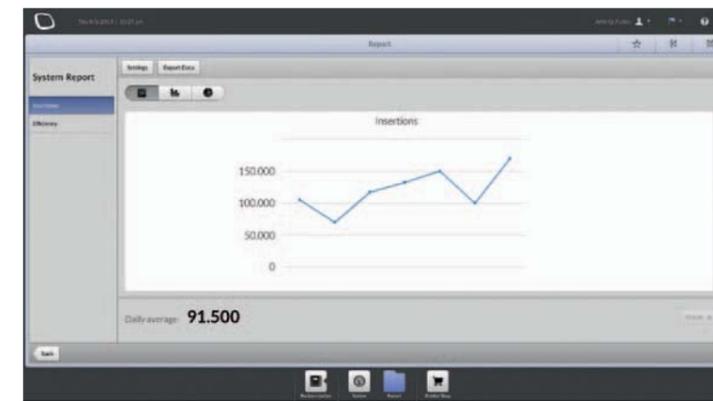
Thanks to a completely new user interface, Fusion Cross can be operated easily and intuitively. State-of-the-art touchscreen displays assist user guidance with a new type of position control: They are self-orientating which enables the operator to see any information that may be necessary from the machine 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.



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.



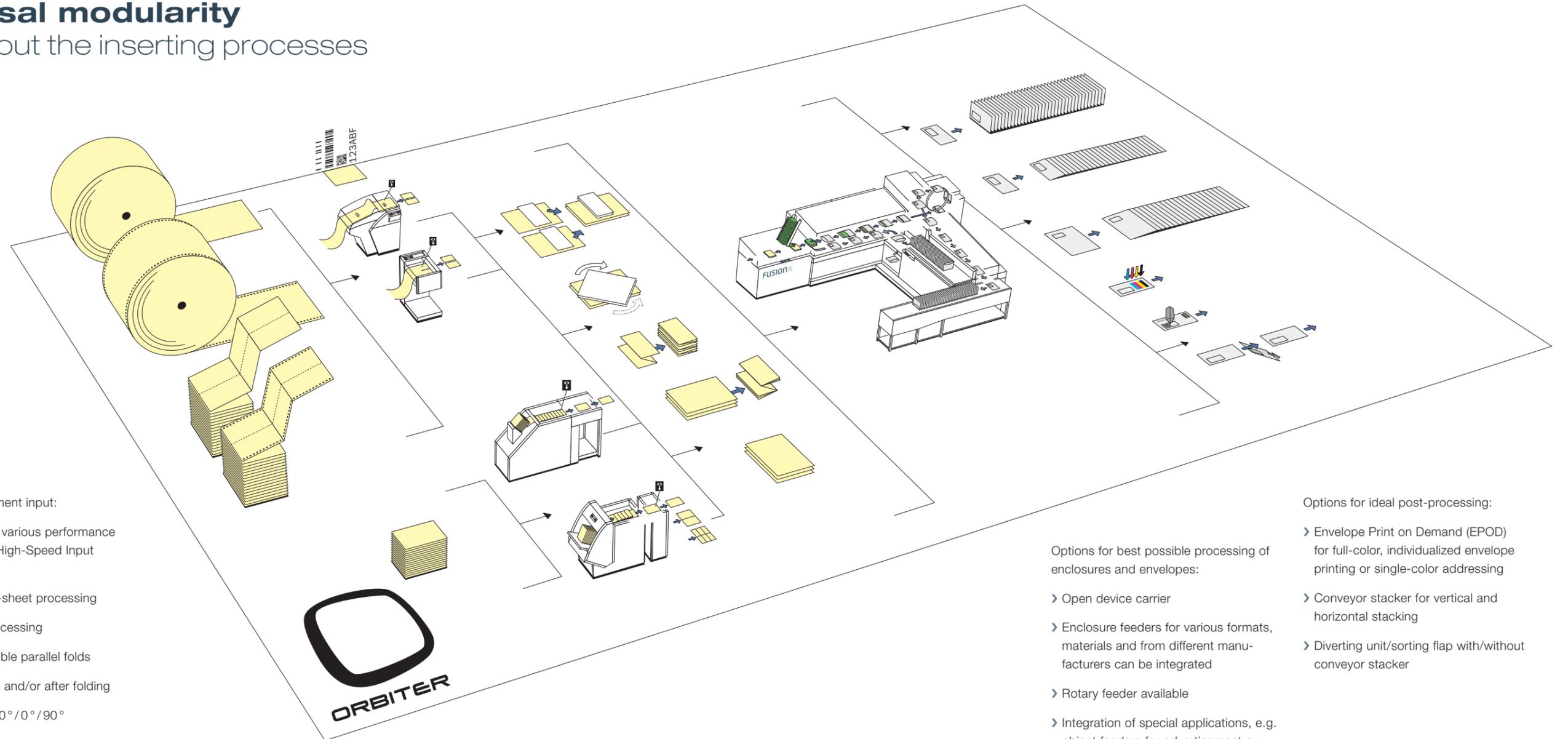
Thanks to the application **BÖWE Cockpit Recipe** the user – for the first time – is no longer required to program any machine functions, instead he only has to describe the characteristics of the material to be processed. This means that detailed knowledge of the system is no longer required. A recipe 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 Report for application and system oriented report creation.

Universal modularity

throughout the inserting processes



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 $-90^\circ / 0^\circ / 90^\circ$
- › 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)

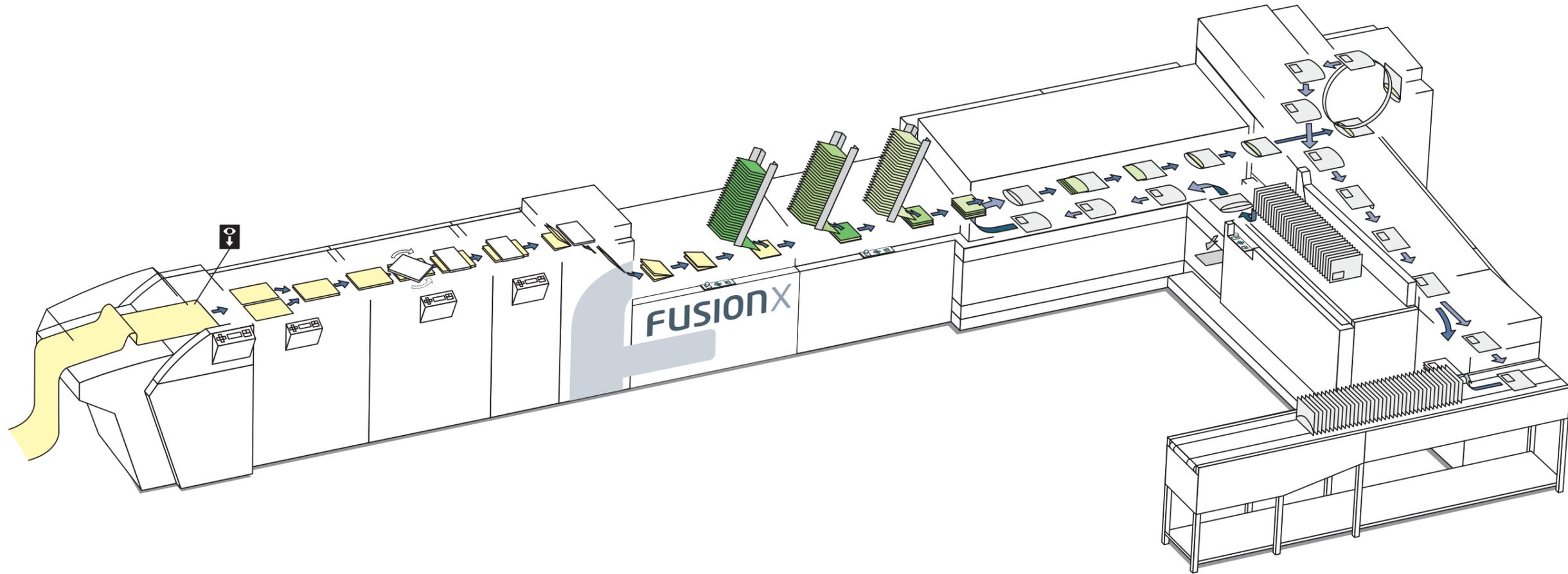
Options for best possible processing of enclosures and envelopes:

- › Open device carrier
- › Enclosure feeders for various formats, materials and from different manufacturers 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 #7 3/4, #10, 6 x 9, Stretch/Brokerage	up to 22,000 env/h	C4, B4 Flats (9 x 12, 10 x 13)	up to 16,000 env/h
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Documents from the infeed channel

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

Enclosures

Max. number	9 enclosure feeders	Thickness	0.06 mm - 10 mm
Width	148 mm - 305 mm	Paper weight	60 - 250 g/m ²
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/m ²

Max. inserting package

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