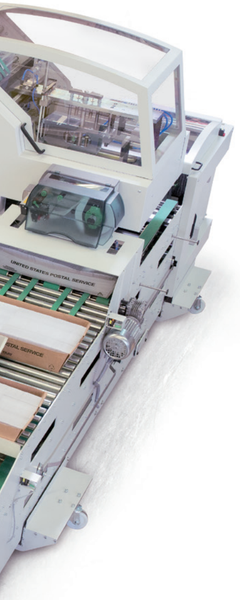
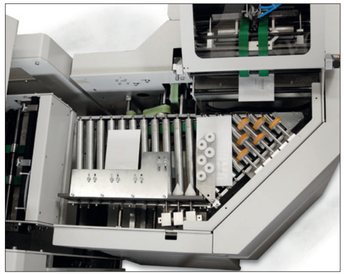
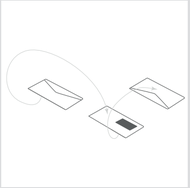


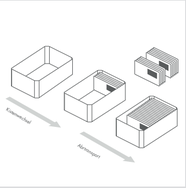
Versions and technical data



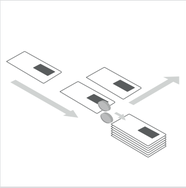
Angled redirection
The envelopes are gently redirected through the 45°+45° unit.



Turnover belt option: to stack the envelopes in different directions in the letter tray
(USPS, Commingle).



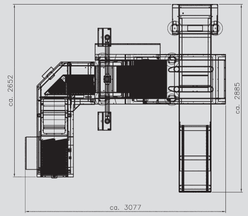
Automatic stacking into the letter trays with a changeover time of 2 seconds.



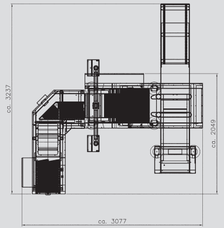
Automatic ejection of envelopes that should not be delivered because of open flaps, non readable addresses, or IMB Barcodes.

sima220	
Max. format:	180 x 293mm, 7" x 11 ½"
Min. format:	90 x 145 mm, 3 ½" x 5 9/16"
Envelope thickness:	max. 6 mm, ¼"
Envelope weight:	max.100g, 3 ½ oz
Infeed height adjustable:	600 mm - 750 mm, 23 ½" - 29 ½" **or** 750 mm – 900 mm, 29 ½" - 38 7/16"
Mail Tray changeover:	approx. 2.0 sec (max. 1,800 trays/h)
Speed:	Up to 20,000 envelopes/h (depending on envelope quailty & size)
Letter Trays:	MM 2 foot tray, MM 1 foot tray, EMM 2 foot tray
Electrical connection:	16A, 400/230 V, 4 kW
Compressed air:	6 bar, 200 l/min

Floorplan



Output right



Output left

08/2013

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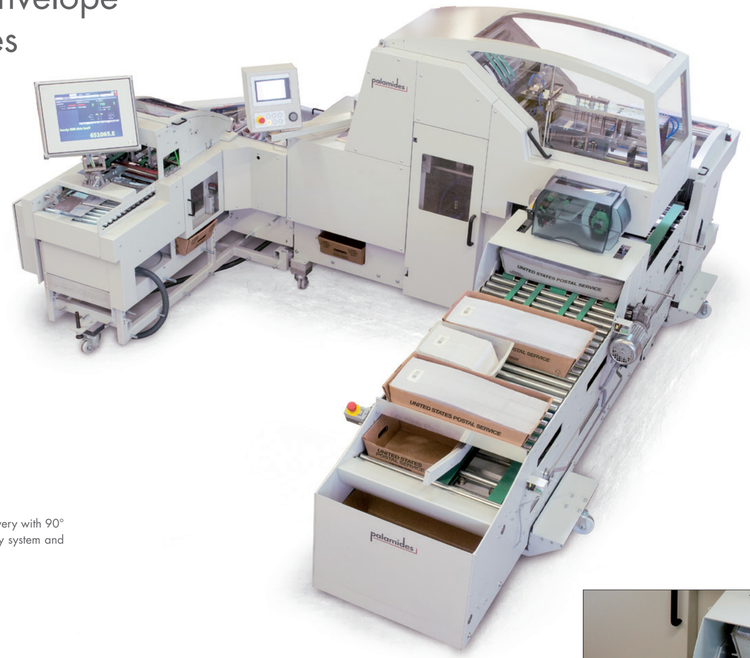
sima

Automatic Letter Tray System for envelope inserting machines

Automatic Letter Tray System for envelope inserting machines



The picture shows the **sima220** Automatic Mail Delivery with 90° infeed module, camera reading system, American tray system and label printer.

Description of the function:

The **sima** Automatic Mail Delivery lines up with any inserter and automates the presorting and letter tray preparation processes.

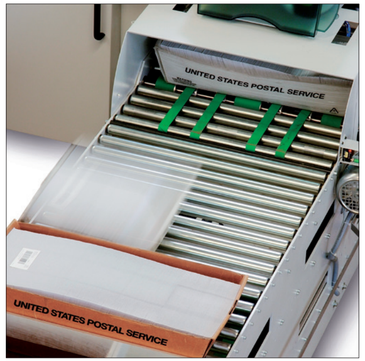
The delivery checks for open flaps, non-readable addresses, and IMB Barcodes then automatically rejects any letter that should not be delivered. Various reading systems are available for the **sima**, from simple print mark readers up to a server based OCR/IMB reading system connected to the Digital Front End. Our patented collection unit safely stacks the envelopes individually without contacting each other - making twisting or interleaving almost impossible.

The envelope stack is quickly pressed before filling the letter trays in accordance with USPS regulations (DMM). The exchange of letter trays occurs automatically with an exchange speed of up to 1,800 boxes/h (2.0 sec).
The tray exchange unit can handle MM and EMM letter trays. A unique feature is its ability to intermix one and two foot letter trays depending to the presorting need.

As an option, a postcode label printer can be integrated into the **sima**, which applies a tray label to the letter tray. The filled letter trays are temporarily stored on a large buffer section.

The Sequence Repair System (SRS), which marks or separates mails that do not belong to the actual mail sequence, comes standard on this machine. The **sima** can instruct the operator what to do with the marked or separated mail. This SRS enables a constant production speed even when sequence problems appear.

Increased workforce efficiency



US letter tray coming out of **sima220** with automatically printed tray tag.

Advantages at a glance:

- **Lower costs with automatically presorted and labeled letter trays.**
- **Significantly higher net throughput of the inserter.**
- **Increased workforce efficiency.**
- **Optimized shipment quality as a result of the ejection of defective envelopes.**
- **Perfect control:**
  - **Creation of a "missed address" report** (optional).
  - **Immediate report of missed addresses to the DFE for reprint** (optional).
- **Short changeover time of less than 10 minutes.**
- **Processing of 1 and 2 foot trays as well as EMM's**.
- **Patented touchless stacking of the envelope:**
  - **Envelope stacking controllable without steps, from contact free to compacted.**
  - **Envelopes cannot catch at windows and flaps.**
- **Can be connected to any available inserter.**
- **Automatic label printer** (optional).
- **Extremely quick tray change of 2 sec**
- **Large tray magazines - ten 1 foot and ten 2 foot trays - which allows uninterrupted production.**
- **Sequence Repair System (SRS) which marks or separates mail that does not belong to the actual mail sequence.** The **sima** can instruct the operator what to do with the marked or separated mails. This SRS enables a constant production speed even when sequence problems appear.

Standard equipment and options

Standard Equipment:

- **Automatic ejection of envelopes with open flaps, illegible addresses, etc.** (The corresponding camera system has to be selected.)
- **Automatic letter tray exchange with magazine for ten 2 foot trays and ten 1 foot trays.**
- **Output buffer for up to ten intermixed letter trays.**
- **Machine control with touchscreen and clear user interface.**
- **45+45 angled redirection for highest process reliability. Envelope carriage with flap on front end.**
- **Compacted letter stacking.**
- **Sequence Repair System (SRS) which marks or separates mail that does not belong to the actual mail sequence.** The **sima** can instruct the operator what to do with the marked or separated mail. This SRS enables a constant production speed even when sequence problems appear.
- **Standard interface with preparation for stop connection.**

Options:

- **Feed to the left** (feed to the right is standard).
- **Turnover belt.** The envelopes may need to be turned up to twice depending on the postal regulations and the envelope inserting machine.
- **Camera system** (OCR, match control, barcodes, IMB, Postnet).
- **Strapping unit for small quantities or leftover product.**
- **Printing of information labels and tray labels.**
- **Server connected reading system.**
- **Quality control** (open flaps, printed image).
- **Task checklist reports.**
- **Various interfaces on request.**

Flow chart: