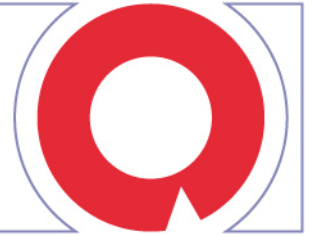


# CARD MAILING SYSTEMS



## MS10 - MS20



### INTELLIGENT & SECURE CARD MAILING

The MS10 & MS20 Card Mailing Systems offer affordable solutions for direct card mailing and fulfilment applications. They can be used either as a stand alone unit or integrated into the Matica card personalization line.

#### *Target Markets*

*Financial Institutions, Card Manufacturers, Service Bureaus,  
Telecommunications, Governments, Retailers, Insurance Companies,  
Direct Mailing, Fulfillment, Service Providers*



**PC-controlled data matching:** ensures 100% correct matching of card(s) and carrier even when cards are placed in the feeder in a non-sequential order.

**Stand alone or in-line:** MS10 and MS20 can be linked to all Matica Mid-volume card personalization systems providing a complete and secure service.

**Carrier-barcode verification module:** ensures that cards and carriers match before combining and these to the folding and insertion module.

**Magnetic stripe, smart card and front or rear barcode and OCR data capture.**

**Affix label sensor:** ensures better control of rear affix label attachment on cards.

**Buffering system:** creates a linear flow of both cards and carriers at high speeds and productivity without any "parking areas" that can cause carriers to become out of sequence.

**Card-carrier transport control:** transportation is performed through multiple rollers and sensors which at any moment control the exact position of each card and carrier at all times.

**Carrier cooling system Management of "numerous families":** both models give the possibility to attach up to 6 cards per carrier (up to 4 if the carrier needs to be folded). The position of each individual card on the carrier can be controlled.

**Card reject tray:** non-readable cards are placed in a reject tray without interrupting the production process.

**Carrier reject box:** in case of barcode mismatch, the carrier does not need to be removed by the operator, but is automatically placed in the reject box, and normal production is continued.

**Management of laser printer through direct commands or Windows driver:** practically any laser printer can be used.

**Folders:**

**DS-100:** connected directly to MS10-MS20, it folds and inserts the carrier (Z, C or V shaped) into the envelope with the card(s) affixed including various sized attachments when required.

The DS-100 can also be configured with other feeder modules to insert attachments (from a single A4 sheet to 4 mm thick booklets).



MS20 in line with ZT20



MS10 with Francotyp

## Technical Features

**Productivity:**

**MS10:** up to 1000 cph

**MS20:** up to 2200 cph in standard feeding mode (25% reduced speed with in line laser printing)

**Card Handling:**

- Input hopper capacity (0.76mm cards): 250 cards
- Card formats: ISO Std. CR80 – 0.50-0.76 mm
- Reject hopper for non readable cards
- Rear label affix module
- Number of cards per carrier: 6 (4 if to be folded)

**Carrier Paper Handling:**

- Carrier formats: A4 or US letter size (upon order)
- Recommended paper thickness: 80-120 grams
- Reject carrier box
- Carrier cooling system
- Carrier buffering system:
  - MS10:** 2 carriers
  - MS20:** 4 carriers
- Optional HP laser printer (44 pages/minute)
- Carrier- Barcode verification module (card/carrier matching)

**Card Data Capture & Matching:**

- Magnetic stripe encoding station
- Optional Smart card reading station
- Optional barcode reader (can be used front or rear)
- Optional 2D barcode reader (PDF)
- Optional OCR reader

**Other Features:**

- Key-lock security feature
- Optional support for printer
- Monitor and keyboard support
- In-line configuration

**Communication Interface:**

- RS232 Serial Port

**Software:**

- MatiCard® Card design software for Windows® 2K/XP
- Upgradeable firmware: Via PC on Flash EPROM
- Diagnostics and set-up software

**Dimensions & Weight (with folder support units):**

- Height: 1181 mm
- Width: 1207 mm
- Depth: MS10 1550 mm  
MS20 2010 mm
- Weight: MS10 281 Kg  
MS20 310 Kg

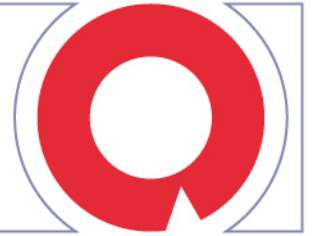
**Power Supply:** 110-240 Volts AC, 50-60 Hertz

## Folder & Inserter Technical Features

**DS-100:**

- Envelope format: DL or C5
- Carrier folding: Z, C or V
- Options: - up to 6 insert feeders or A4 sheet folders  
- envelop conveyor
- Total pack thickness up to 6 mm

# MAILING SYSTEM



## *DS-100*



Our DS-100 System offers total flexibility in today's mail processing market place.

It can be configured to almost any application, from a single document, up to a highly sophisticated multi-station installation, each running speeds of up to 2000 filled envelopes per hour. It is capable of processing documents from 6 different hoppers, with a total pack thickness of up to 6mm.

The DS-100 is a highly durable system, designed and built for performance, reliability and exceptional value.



## Control Panel

The DS-100 has a large, simple-to-use graphical display and control panel, which guides you through every step of the operation.



By remembering your most common document types, the Select & Go function will enable you to program new jobs in seconds. Up to 20 applications can be saved and recalled by name.

## Document Security

The hopper on the DS-100 is equipped with an infra-red electronic double document detection system. This accurately measures both the thickness and length of each document, ensuring the integrity of your mailings.

## Card Folder

Once the cards and carriers have been securely matched, they are passed to the DS-100 to be folded and inserted. The unique folding system allows the carrier to be folded in Z, C or V formats depending on the type of envelopes to be used.

Utilizing other folders and feeders from the DS-100 range, up to 6 further inserts may be added to the carrier before insertion.

## Insert Feeder for 1/3 of A4 sheet

Our high capacity insert feeder holds up to 300 mail pieces and features a unique separator that can easily cope with a wide variety of inserts from a single 60 gsm document up to a 4mm thick booklet. The hopper may be loaded during running in order to maximize efficiency.



## Tower Feeder

The tower feeder allows two different inserts to be loaded without requiring more valuable space. Each hopper has a capacity of over 200 documents.





## A4 Feeder & Folder

Our powerful and versatile A4 feeder & folder is capable of producing all fold types for documents with virtually any address position. All folds are set automatically when a job is programmed. It is available with either 1 hopper providing cascade capability and a maximum capacity of 500 sheets.

It also enables the DS-100 to work in off-line modality (not linked to the MS10 card mailing system) to allow the production of bank statements.



## Envelope Feeder

With a hopper holding over 400 envelopes. Which can be reloaded without stopping the system, the DS-100 handles sizes such as DL and C5, with ease. All internal guides and controls are adjusted automatically, each time an application is selected.



## Output Conveyor

When processing larger volumes, an output conveyor is available to stack filled envelopes in their correct order.



## Easy Access

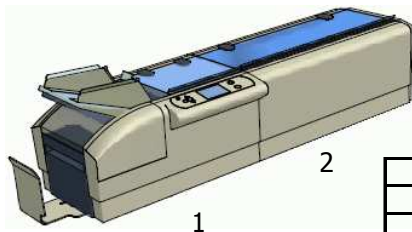
A key feature of the DS-100 is that your documents are easily accessible, wherever they are in the system.



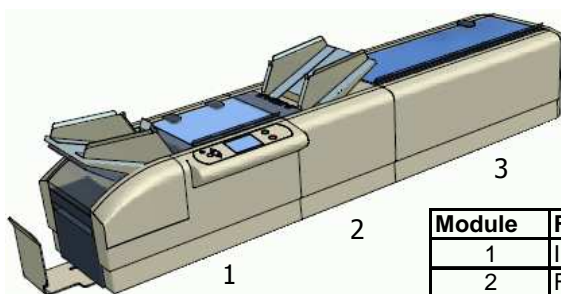


## Configuration Options

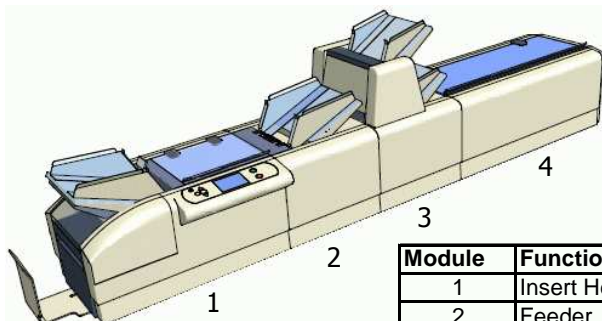
(Configuration examples are not exhaustive - secondary modules are freely configurable)



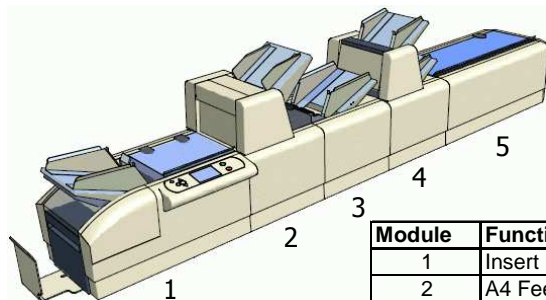
Module	Function
1	Insert Head
2	Card Folder



Module	Function
1	Insert Head
2	Feeder
3	Card Folder



Module	Function
1	Insert Head
2	Feeder
3	Tower Feeder
4	Card Folder



Module	Function
1	Insert Head
2	A4 Feeder
3	Feeder
4	Tower Feeder
5	Card Folder

## Technical Features

- 1-3 feed modules (up to 6 hoppers)
- Handless stationery from 80gsm to 4mm thick booklets
- Inserts collated packs up to 6 mm thick
- Fully automatic fold and envelope settings
- 20 user programmable job memories
- Cycles at up to 2000 filled envelopes per hour
- Advanced operator interface
- Advanced double document calibration

### Inserting Head

- Envelope size:
  - Depth: 89mm – 165mm
  - Width: 152mm – 264mm
- Insert pack thickness: 6mm
- Cycle speed: up to 4500 per hour

### Card Folder Specification

- Fold Types:
  - Z fold & V Fold capable (C fold and double V fold possible future developments)
- Carrier Size:
  - up to 216mm wide by up to 406mm long (Depending on fold type)
- Cards/ Carrier:
  - Up to 4 cards, middle and lower panel only
- Attachment: Cards must be stuck securely on to carrier.
- Paper Weight: min 80gsm – 100gsm max
- Speed: Up to 2000 per hour
- Communication Interface: RS 232 serial connection to card issuance system

### Insert Feeder

- Material size:
  - Depth: 76mm – 152mm
  - Width: 140mm – 242mm
- Minimum weight: 60gsm single sheet
- Maximum thickness: 4mm

### Folder

- Material size:
  - Depth: 140mm – 406mm
  - Width: 140mm – 228mm
- Weight: 60gsm – 120 gsm single sheet
- Up to 8 sheets 80gsm

### Conveyor's Dimensions:

- LxWxH: 1100 x 260 x 820 mm
- LxWxH: 1850 x 260 x 820 mm

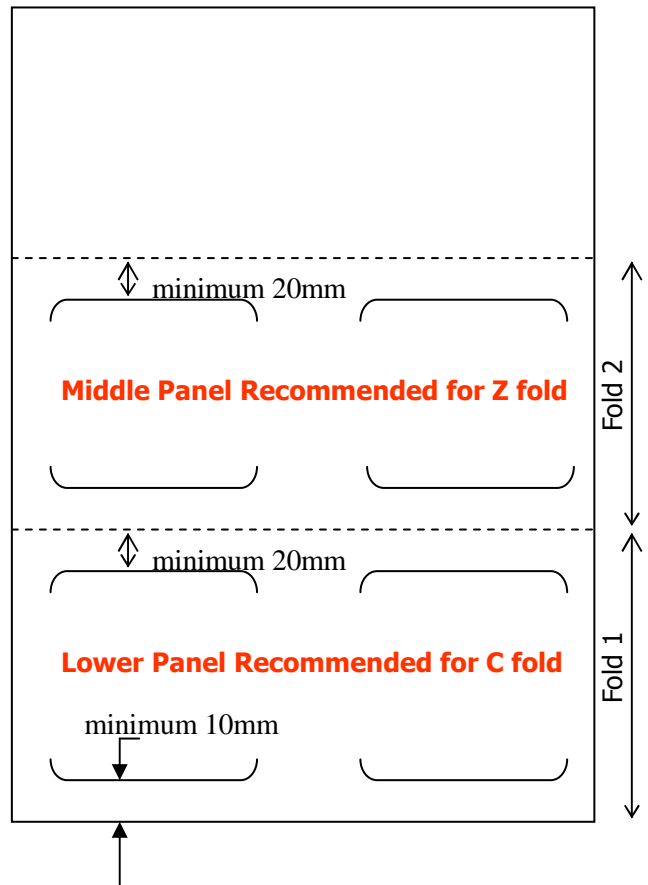
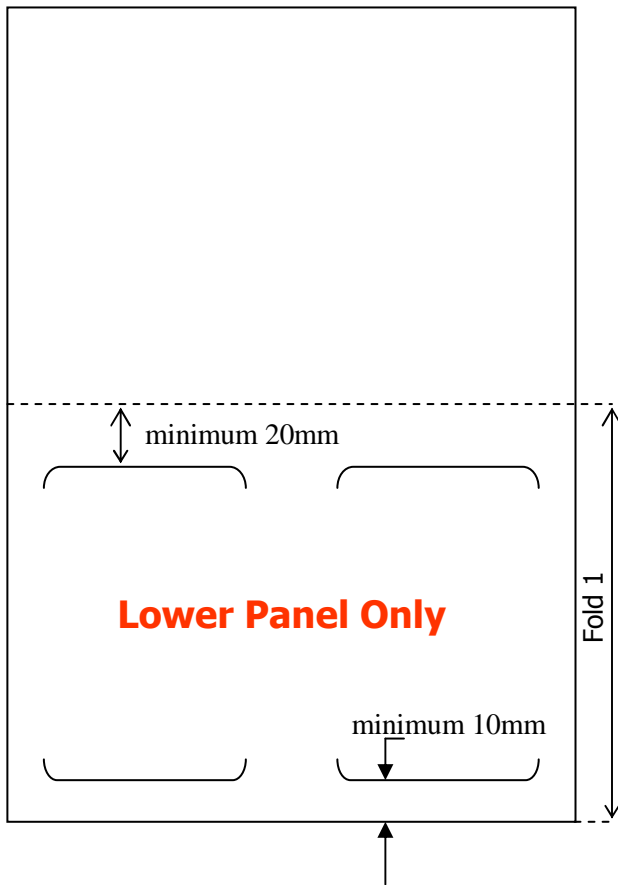
Data subject to change without notice. All trademarks stated are the property of their respective owners. V. 1.0



## V Fold

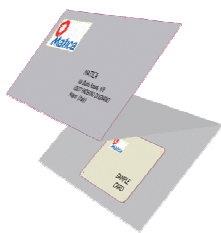
## Card Positioning

## Z and C Fold

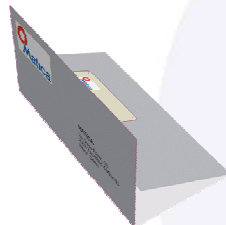


## A4 Folding Modalities

### Z Fold



### C Fold



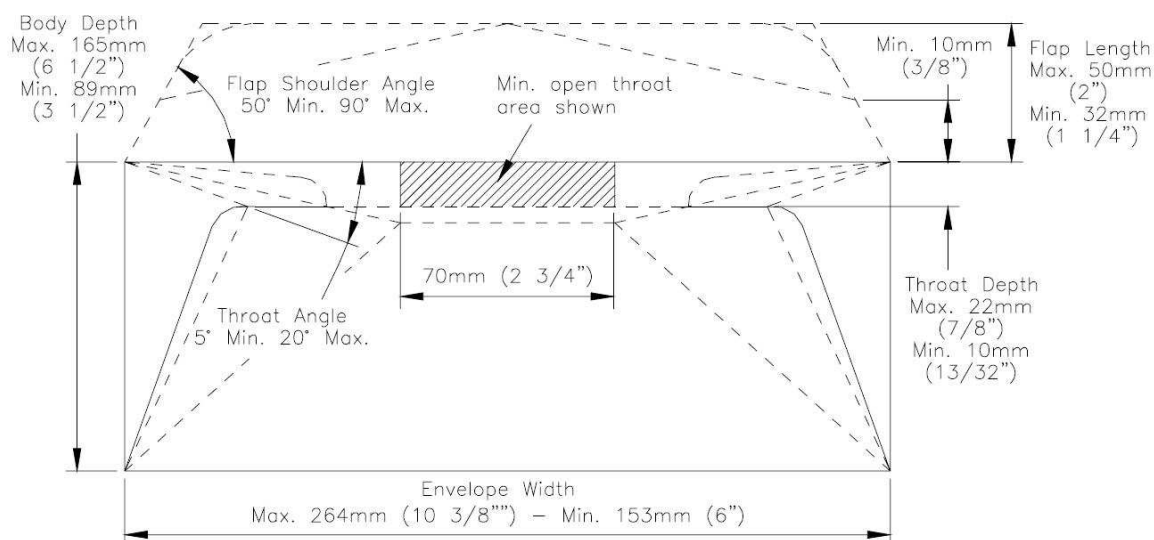
### V Fold





<b>MTRR</b>	Target 1 hour on normal fix areas
<b>Technical Training</b>	5 days
<b>Spare Parts</b>	Listing provided in the parts manual

## Envelope Specification



**Envelope Weight:** 70gsm (18lbs bond) min., 100gsm (26lbs bond) max.

**Hopper Capacity:** 350 - 400 of 80gsm (20lbs bond) envelopes.

### **General Requirements**

Windows must be securely gummed.

Side seams must be glued to the top.

Pre-scored flap crease to enable the envelope to open flat.

No twisting, curling or distortion evident.

Matt and semi-gloss finishes are acceptable. Gloss finishes require approval from Technical Support Dept.

Envelopes not meeting the above requirements may be acceptable, subject to testing and approval by Technical Support Dept. Envelopes not meeting the above requirements may affect the machine performance.