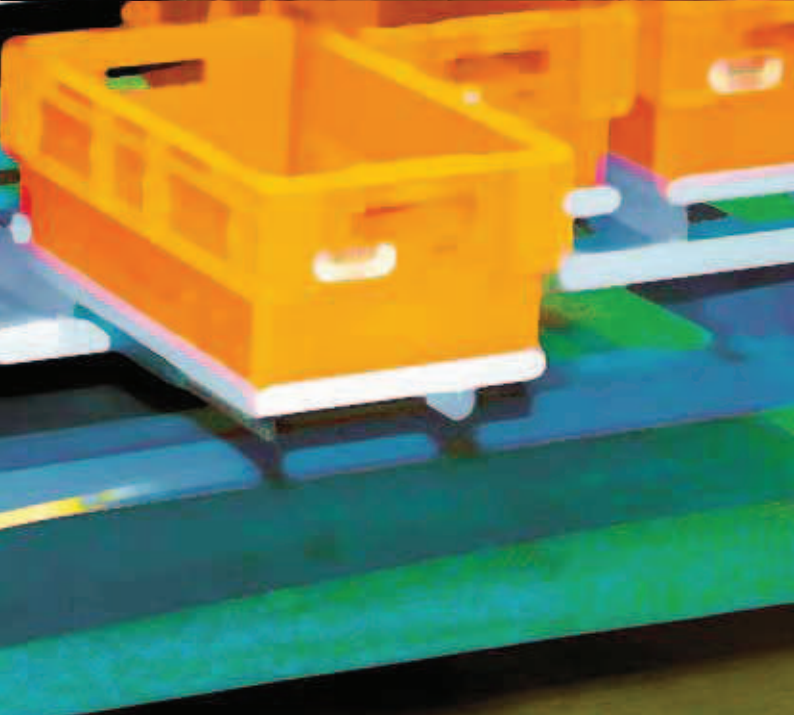
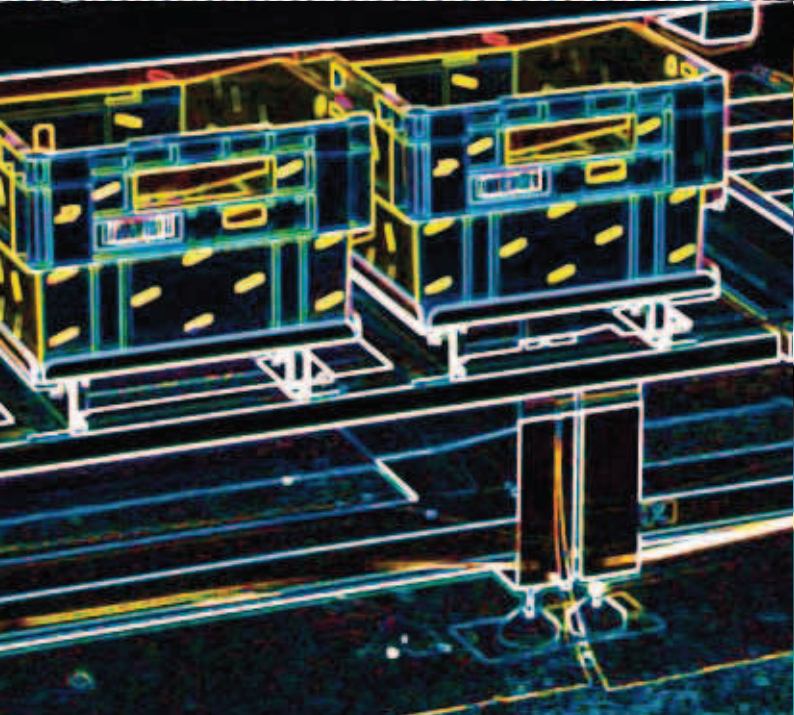


MACHINE FOR PREPARING, SORTING AND SEQUENCING MAIL

# MARS

Compact and efficient



Future postal solutions

# The small machine with big advantages

**THE COMPACT SORTING AND SEQUENCING SOLUTION WITH A SMALL FOOTPRINT.**

## EFFICIENT IN EVERY RESPECT

### Throughput

In its various different configurations, MARS is capable of sorting letters based on information found in a barcode or the address. Its throughput exceeds 45,000 letters/hour.

It can handle mail pieces measuring up to 292 x 176 x 8 mm and weighing up to 100 g.

### Operating mode

Well-suited to the needs of all postal operators including those in emerging markets, MARS is a highly effective and reliable machine that is renowned for its simplicity and efficiency.

It is designed to operate in either single or multi-pass mode and is capable of sorting to a large number of destinations. MARS is equally capable of performing letter sorting and delivery round preparation (letter sequencing).

### Footprint

MARS was designed to use the minimum amount of space possible whilst maximising operator comfort. The standard number of 20 output stackers can be increased by adding additional modules of 4 output stackers or by using the multi-pass mode. As a result, the machine can sort to a theoretically unlimited number of destinations.

### Operator comfort

Operator comfort is a key feature of MARS. Its single-level design makes it easy to operate with just one person. Designed with operator comfort in mind, its key features include visual signals, colour touch screen, mail trays placed under outputs, and a very low noise level.



Control panel



Feeder

● Leader in sequencing

● Suited to emerging postal operators for mail sorting

● Low operation cost

● Ergonomic, quiet and compact

● Single operator

## LOW COST OF OWNERSHIP

As the various different components can be accessed easily, the operator can perform the machine's daily maintenance. The machine can also be connected to SOLYSTIC's web monitoring system *easy-View* to enable remote monitoring over the Internet. Preventive maintenance is therefore greatly reduced. The machine's uptime exceeds 99%.

MARS' many advantages result in a high level of efficiency and a low cost of ownership:

- easy to use; operator training is reduced to a minimum (one or two days),
- low preventive maintenance costs and small footprint,
- and finally, the quality of service the machine provides contributes further to its rapid return on investment through a significant reduction in distribution costs.

Recognised worldwide as the leader in sequencing.



*Destacker*



*MARS machine*

● Throughput > 45,000 letters/hour

● High performance and reliable

● Rapid ROI

● Installed in 2 days

# A high flexibility

**A HIGHLY FLEXIBLE MACHINE, IDEAL FOR PREPARING, SORTING AND SEQUENCING MAIL.**

## PREPARING MAIL

MARS is used for all operations concerned with bulk mail processing and mail preparation: facing, stamping and cancelling, addressing, printing customer codes.

## PRE-SORTING

MARS is an ideal solution for pre-sorting operations. It can group together similar mail pieces according to criteria requested by postal operators – bulk process operations – which means that large-volume rates can be applied.

## SORTING INCOMING AND OUTGOING MAIL

MARS' multi-pass mode means that the number of separators can be adapted to each customer. This operating mode is based on automatic reading of barcodes, data contained within the address or other information found on the envelope.

## PREPARING DELIVERY ROUNDS

MARS is the ideal sequencing solution, as acknowledged worldwide. Thanks to the machine's ability to work non-stop (beginning a new pass of a batch of mail pieces before the previous one has finished), its productivity is increased by 30% compared to a traditional system where the machine would first need clearing of mail. This results in a throughput of 15,000 letters sequenced per hour in 3 passes. MARS is normally used to sort 15 to 20 delivery rounds at the same time.

## OTHER FUNCTIONS

MARS has already been used for many other applications:

- revenue protection: Netherlands,
- sorting prior to sending ID cards, sorting health cards, bulk mail processing operations: France,
- sorting voting cards: Mexico.



MARS



Mail range

127 ↔ 292 mm

88 ↔ 176 mm

0,15 ↔ 8 mm

2 ↔ 100 g

# A wide range of additional services

## OTHER MAIL PROCESSING FUNCTIONS CAN BE CARRIED OUT USING THE MARS MACHINE.

### ADDRESS RECOGNITION AND INTERPRETATION

Depending on sorting requirements, MARS can be equipped with a COPERNIC™ image acquisition function connected to a MOSAIC™ recognition system which reads both black and white and fluorescent barcodes.

Images of mail pieces can then be sent to an on-line or off-line video-coding system. It is also possible to use the V-Id™ (virtual identification) system which identifies each letter without the need to print barcodes on the mail piece.

### REVENUE PROTECTION

MARS can easily be incorporated into a complete data analysis system. Equipped with different sensors to detect the information contained on each mail piece, MARS can be used to identify postage rates and check that the stamps used correspond to the service requested.

### PROCESSING OBJECTS

#### Facing and cancelling

Mark detection enables mail to be separated in different directions. Letters are faced, directed and cancelled in several passes. In this mode, 20,000 letters can be processed per hour by just one operator.

#### Checking stamps

Detecting and identifying stamps, postage paid, items to cancel, freepost, etc.

#### Reading customer codes

Special information like RFID chips or customer codes printed in 1D or 2D formats can be processed by MARS.

#### Printing codes

It is possible to print special codes requested by the user or required for future processing operations.

### WEB MONITORING

MARS machines can be monitored remotely in real time, from anywhere that the Internet can be accessed, using SOLYSTIC's web monitoring tool *easy-View*. Standard tools such as web browsers, smartphones or tablets are used to consult the machine. This monitoring feature enables technical support teams to respond more quickly, thereby significantly reducing costs. Where maintenance is required, *easy-View* allows remote monitoring and so remote guidance of maintenance operations, a particular advantage when the hubs in which machines are located are spread over the country.



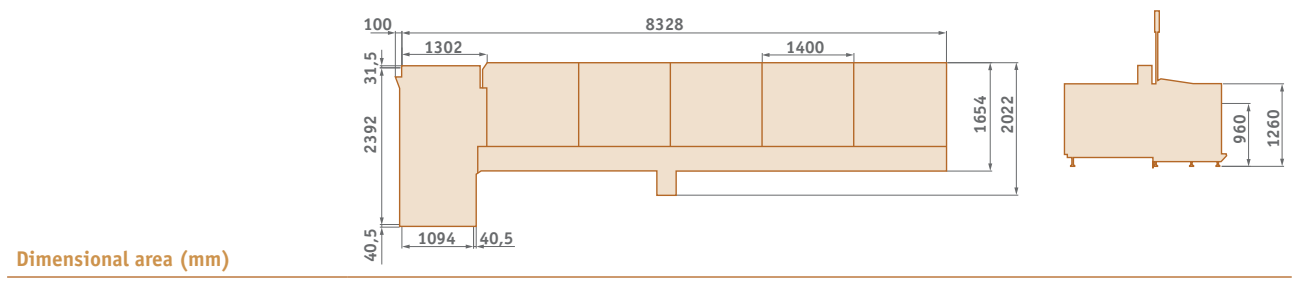
Web monitoring via *easy-View*

### SPECIFIC APPLICATIONS

- Separating Urgent/Non Urgent letters,
- Recording registered mail,
- Processing reply cards.

## TECHNICAL CHARACTERISTICS

<b>Machine's operational throughput</b>	> 45,000 mail pieces per hour for one pass > 22,000 mail pieces per hour for two passes > 15,000 mail pieces per hour for three passes
<b>Capacity of feeder</b>	4.50 m
<b>Capacity of stackers</b>	410 mm
<b>Modularity</b>	4 stackers/module, length of each module = 1.40 m
<b>Number of stackers</b>	16 to 40
<b>Noise level</b>	< 65 dB
<b>Environmental conditions</b>	Temperature: between 15°C and 40°C
<b>Relative humidity</b>	Between 20% and 80% without condensation
<b>Sustainable development</b>	CO <sub>2</sub> emissions minimised in design, manufacture and operation Conforms with RoHS standards



SOLYSTIC SAS  
14, avenue Raspail  
94257 Gentilly CEDEX  
France  
Tel : +33 (0)1 49 69 41 00  
Fax : +33 (0)1 45 47 82 20

[www.solystic.com](http://www.solystic.com)



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