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1. HEALTH, SAFETY AND ENVIRONMENT

1.1 Precautions and Safety Issues

Thoroughly read this operator manual, before using this machine.

According to the European Guideline for machine safety (EC98-37), this operator manual must be available in the national language(s) of the country where the machine is delivered. Therefore, if you do not have an operator manual in your country's language(s), contact your authorized distributor.

Warnings

- If the feed/fold unit and inserter unit have to be physically separated, the operator should pay attention to the heavy weight of the unit during separation.
- Before connecting check whether the system is suitable for the local mains voltage. Refer to the type plate.

Safety Precautions

- Only competent personnel should operate this machine.
If incompetent personnel do operate this machine, the manufacturer does not accept responsibility for any resulting accidents or injuries.
- Only skilled persons, who are aware of the risks involved, may open the protective covers.
For safety reasons, the machine will not function when the covers are open.
- Keep long hair, fingers, jewelry, etc. away from rotating and moving parts.
- The power connection must be easily accessible, preferably close to the machine.
- For safety reasons, it is essential that the machine is connected to a socket outlet that has a protective earth connection.
- Over-current protection in the equipment also relies on the branch circuit protection (max. 20 A).
- The following part(s) is (are) considered the equipment disconnect device(s):
 - Power supply cord plug
 - 12-pole connector, located on the right-hand side

Conventions



Warning

This symbol:

- Identifies situations where improper use of the machine can result in personal injury or permanent/catastrophic damage to the machine.
- Indicates that the operator manual should be consulted.



Warning

This symbol indicates a danger caused by high voltage.

Note

A note gives additional relevant information.

1.2 Country Specific Conditions

Denmark

In Denmark, certain types of Class 1 appliances may be provided with a plug that does not provide an adequate earth connection when inserted into a Danish socket outlet.

Make sure the machine has a good functioning connection that has protective earthing (the plug and socket outlet must match).

Japan

- Establish an earth connection before connecting the mains plug to the power supply.
- First disconnect the power supply before removing the earth connection.

Languages

This manual is also available in other languages. For more information, please contact your local supplier.

1.3 End of Life

The objectives of the European Community's environment policy are, in particular, to preserve, protect and improve the quality of the environment, protect human health and utilise natural resources prudently and rationally. That policy is based on the precautionary principle and principles that preventive action should be taken, that environmental damage should as a priority be rectified at source.

Separate collection of waste is the precondition to ensure reuse and recycling of waste that is generated at the disposal of electrical or electronic equipment and is necessary to achieve the chosen level of protection of human health and the environment in the European Community.

More particularly, certain materials and components of waste electrical and electronic equipment needs selective treatment as their injudicious handling or disposing of on or into land, water or air would represent a major threat to the environment and human health.

In order to facilitate collection and treatment separated from normal domestic waste, electrical and electronic equipment is marked with the following logo:

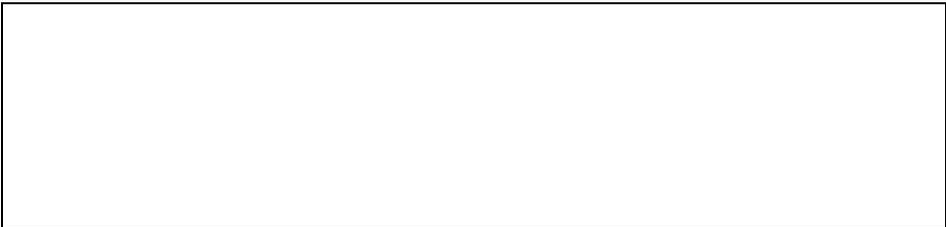


Do not mix with normal domestic waste
Please use the subjoined return or
collection system dedicated to electrical
and electronic waste.

Equipment produced after August 13,
2005.

Not only are you by law not allowed to dispose of the waste equipment via other waste-streams, but we encourage you to actively contribute to the success of such collection and to the common good and better quality of life of present and future generations.

For more information on the correct disposal of this product please contact your local dealer.



2. FUNCTIONAL DESCRIPTION

The DS-80 feeds, folds and inserts documents into envelopes and then seals and stacks the envelopes. Automatic monitoring ensures the correct number of inserts per envelope.

The machine is a sophisticated folding and inserting system which can process large quantities of mail rapidly and easily. The system can be operated by means of a user friendly interface.

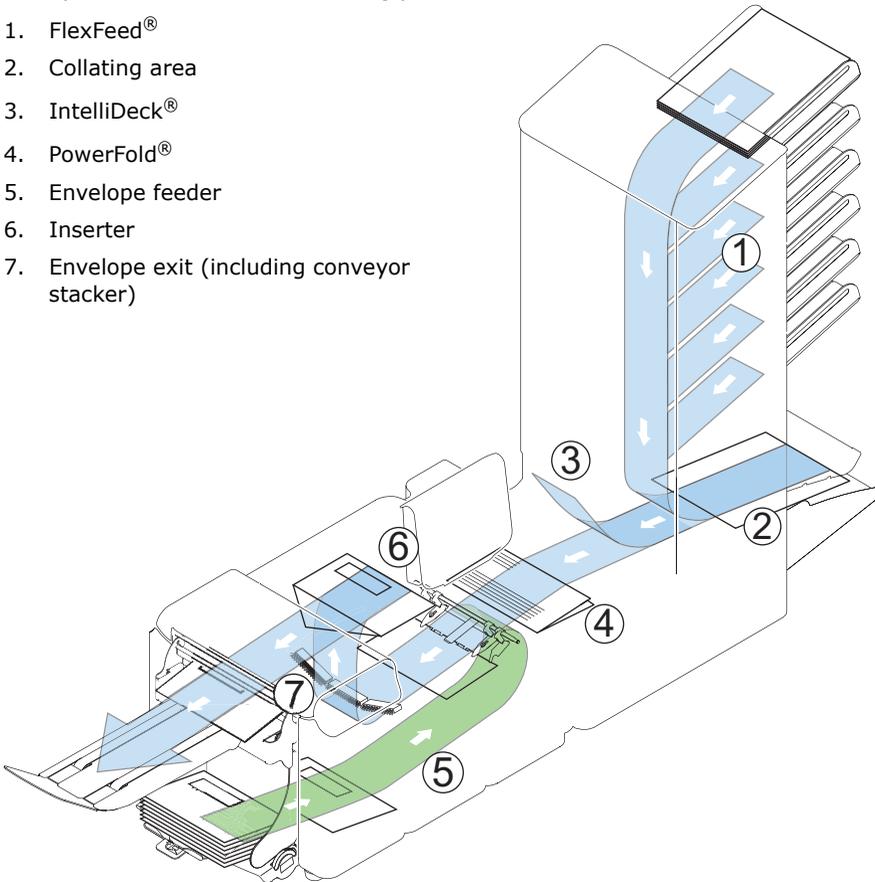
The settings of the system (types of documents, type of envelopes and the type of fold) is recorded in so called jobs. These jobs can be programmed by an authorized user.

The DS-80 is equipped with a variety of special features as document thickness detection, programmable jobs, load'n Go[®], flexFeed[®], double feed control, hopper swap, multifeed, daily mail, intelliDeck[®] and powerFold[®].

2.1 Overview

The system consists of the following parts:

1. FlexFeed®
2. Collating area
3. IntelliDeck®
4. PowerFold®
5. Envelope feeder
6. Inserter
7. Envelope exit (including conveyor stacker)



2.1.1 FlexFeed® (1)

The flexFeed® is the feeding part of the system. There are two types of feeders available: the automatic and the special feeder. The automatic feeder does not require any adjustments for the separation. The flexFeed® is equipped with double feed control. In this way the system can detect faulty sets of documents. The flexFeed® is equipped with hopper swap. This means that two feeders can be linked as pairs. When the first feeder is empty, the system switches to the other feeder. Meanwhile the other empty feeder can be refilled without stopping. It's also possible to feed multiple documents from one feeder. In this way more documents can be fed from one station, for example an original and a copy of a document.

The upper automatic feeder is equipped with a "daily mail" function for processing documents or sets of documents which cannot be processed automatically (e.g. stapled).

2.1.2 Collating Area (2)

After feeding, the documents are gathered and aligned in the collating area.

2.1.3 IntelliDeck® (3)

The IntelliDeck® automatically throws out incorrect sets of documents. In this way the system does not need to stop. Correct sets will be transported to the powerFold® unit.

2.1.4 PowerFold® (4)

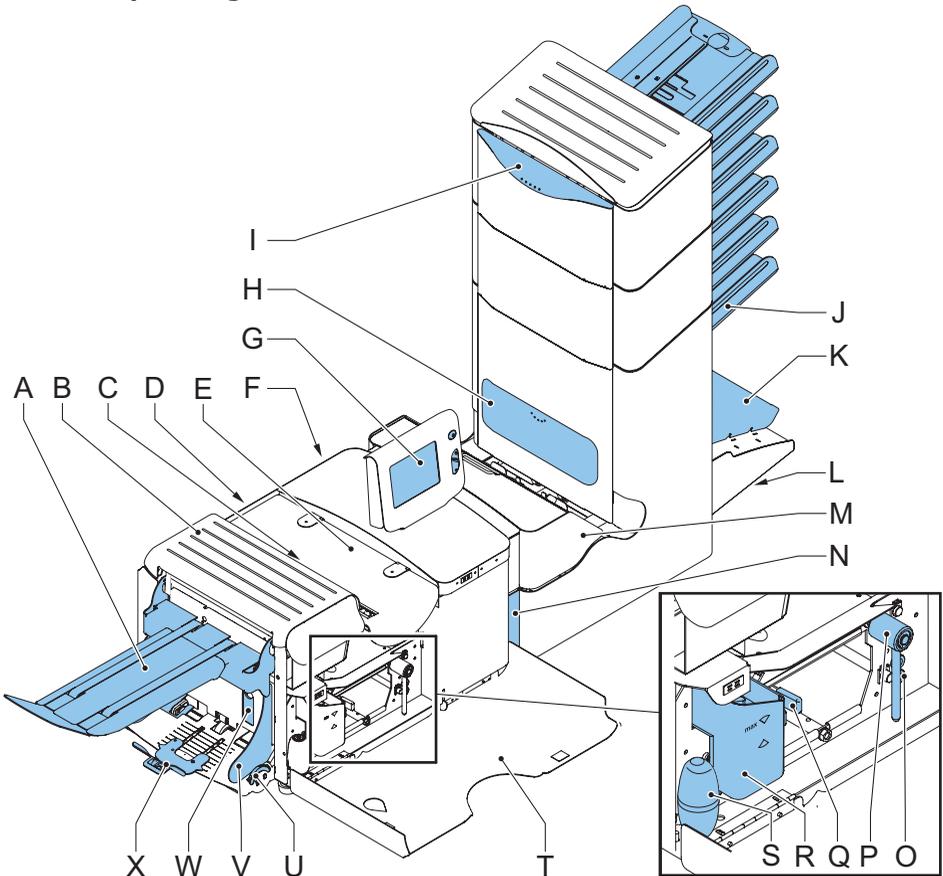
The powerFold® unit folds the documents. The following fold types are possible:

- No fold
- Single fold
- Letter fold
- Zig-zag fold
- Double parallel fold

2.1.5 Inserter (6)

After folding the documents are transported to the inserter unit where the documents are inserted into a waiting envelope. The inserter then seals the envelope (or not) and stacks them on the conveyor stacker. Automatic monitoring ensures the correct number of inserts per envelope.

2.2 Operating Controls



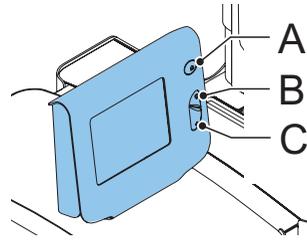
- | | | | |
|---|------------------------------------|---|---|
| A | conveyor stacker | N | locking handle powerFold® |
| B | loc cover | O | air plugs for cleaning the sensors |
| C | unlocking lever for loc | P | handle for manual envelope transport |
| D | power inlet, power switch | Q | unlocking handle for rollers envelope track |
| E | inserter cover | R | water reservoir |
| F | RS232 connector / USB / modem | S | bellows for cleaning sensors |
| G | display (operator panel) | T | side cover (opened) |
| H | OMR reading head cover | U | thumb wheel for side guide adjustment |
| I | hand grip vertical transport cover | V | side guides envelope feed tray |
| J | document feed tray | W | lever for envelope separation adjustment |
| K | collator arm | X | envelopes support |
| L | operator manual storage space | | |
| M | powerFold® | | |

2.3 Display Buttons

The machine has a graphical touch screen.

There are three buttons mounted at the display:

- A: the clear key
When the clear key is pressed during processing documents, the system will stop feeding documents after completing the set. The set will be inserted resulting in a cleared system which is ready to process a new job. The envelopes have to be removed manually if necessary. When the system is stopped already and the clear key is pressed, it will process one set of documents and the system will be cleared.



When a feeder runs empty after the clear key is pressed, an **Ignore** button will be displayed together with the feeder empty message. By pressing the **Ignore** button the clear process will be continued ignoring the empty feeder.

- B: the start key
When the start key is pressed the system starts processing.
- C: the stop key
After pressing the stop key the system does not stop immediately, but on the first opportunity while processing. Because of this there can be incomplete sets in some parts of the system.

Caution

The display is covered with a thin pressure-sensitive layer. To avoid permanent damage of the display, do not use sharp objects to press on the display.

2.4 Software Description

2.4.1 Main Menu

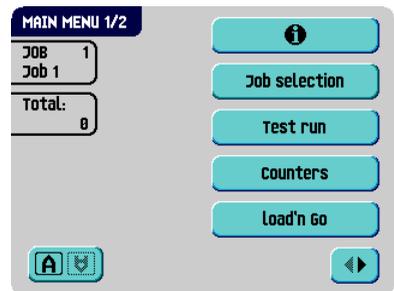
After starting up, the "main menu (1)" screen will appear.

The screen shows the selected job number and the total number of envelopes that have been processed using this job.

The main menu consists of 2 menus, "main menu (1)" and "main menu (2)".

The "main menu (1)" shows 7 different functions:

- : job information (see 2.4.2 "Job Info" on page 12): shows job details.



The job information function is available in all the menus where the button

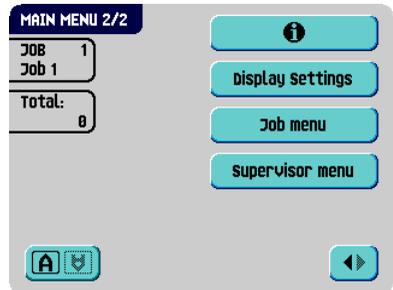


is shown.

- **Job selection** : go to the "job selection" menu to select another job (see 3.7.2 "Select Another Job" on page 29).
- **Test run** : go to the "test run" menu to perform a test run (see "Perform a Test Run" on page 30).
- **Counters** : go to the "counters" menu to reset the counter or to set a stop value (see 2.4.3 "Counters" on page 13).
- **load'n go** : go to the "load'n Go[®]" menu to start a load'n Go[®] job (see 3.7.1 "Using load'n Go[®]" on page 27).
- : rotate display 180°.
- : go to the "main menu (2)".

The "main menu (2)" shows 6 different functions:

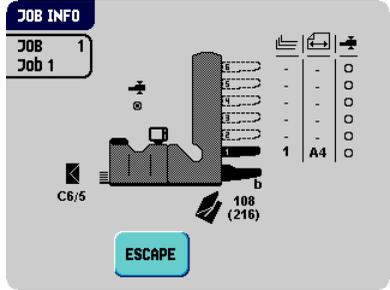
- : job information (see 2.4.2 "Job Info" on page 12): shows job details.
- **Display Settings** : change display and volume settings (see 2.4.4 "Display Settings" on page 13).
- **Job menu** : go to the "job menu" to create, edit, copy or delete a job (see 2.4.5 "Job Menu" on page 14, only for authorized personnel).
- **Supervisor menu** : go to the "supervisor menu" to change system settings (see 2.4.6 "Supervisor Menu" on page 14, only for authorized personnel).
- : return to the "main menu (1)".
- : rotate display 180°.



2.4.2 Job Info

To enter the "job info" menu, press . This menu displays all relevant information about the selected job. If the optional Insert'n Frank™ is used the "Insert'n Frank™ info" menu is also

available using the  button. If the optional OMR is used the "1 track OMR info" menu is also available using the  button.



To return to the "main menu (1/2)", press .

The "job info" menu contains the following information:

-  Gives information about the envelope size (ISO format or height in mm).
-  Shows the type of fold.
-  Shows the feeders selected to pick documents from (black is selected).
-  The sign below this icon shows if the document double feed detection for the relevant feeder is switched on - or off - .
-  The number under this icon indicates the number of sheets that must be picked from the relevant feeder.
-  This sign indicates that the relevant feeder is set for daily mail.
-  Below this icon, the format of the document in the relevant feeder is indicated (ISO standard or height in mm).
-  This sign indicates that the relevant feeders are linked. This means that when one feeder is empty, the system automatically starts picking documents from the other feeder.
-  The sign indicates that for the relevant feeder the Optical Mark Recognition (OMR) is switched on (optional).

2.4.3 Counters

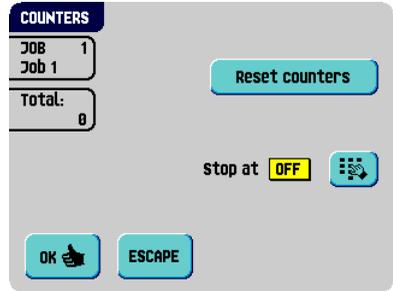
To enter the "counters" menu, press  from the "main menu (1)".

The "counters" menu shows the following functions:

- : press this button to reset the daily job counter and stop counter to zero.
- : press this button to enter a stop value.

The stop counter is switched off when it is set to zero. The display will show "Stop at off".

The stop counter can be set between 0 (switched off) and 9999. The system will continue until the job counter reaches the stop counter value. The system stops and can be re-started.



Note

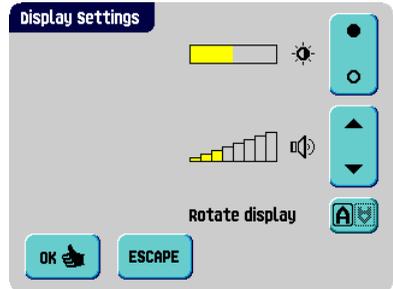
The counter settings are job related.

2.4.4 Display Settings

To enter the "display settings" menu, press  from the "main menu (2)".

The "display settings" menu shows the following functions:

- : enables to change the contrast of the display. The graphic shows the contrast setting.
- : enables to adjust the volume of the acoustic signals. The graphic shows the volume setting.
- Rotate display: press the  button to rotate the display 180 °.



2.4.5 Job Menu

After pressing the  button a login menu opens.

To prevent jobs being edited or deleted without informing the 'job owner', this menu is protected by a PIN-code. The PIN-code is **2546**.

When a wrong pin code is entered, the cursor is set to the first number to try again.

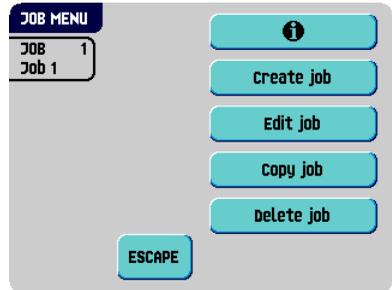
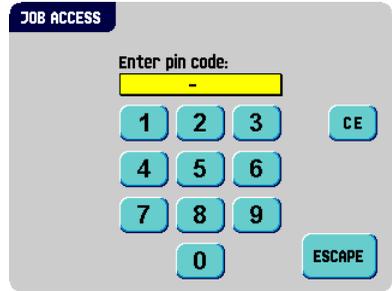
After 3 times entering a wrong pin code the display shows the "main menu (1)" again.

After entering the correct pin code the "job menu" appears.

This menu enables the creation, deletion and/or editing of jobs.

The "job menu" shows the following functions:

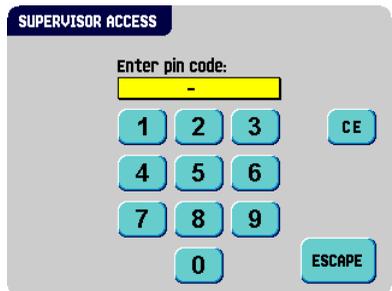
- : job information (see 2.4.2 "Job Info" on page 12).
- : create a job (see 3.9 "Create a Job" on page 31.)
- : edit a job (see 3.10 "Edit a Job" on page 40).
- : copy a job (see 3.11 "Copy a Job" on page 40).
- : delete a job (see 3.12 "Delete a Job" on page 41).
- : exit and return to the "main menu (1)".



2.4.6 Supervisor Menu

After pressing the  button a login menu opens.

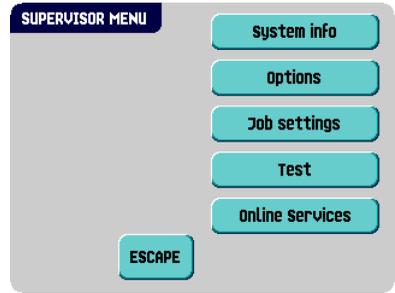
Enter the PIN-code **2546** to access the "supervisor menu".



After entering the correct pin code the “supervisor menu” appears.

This menu enables checking and configuring the system.

The “supervisor menu” shows the following functions:



- **System info**: shows system information, like:
 - The flex certificate, used for OMR
 - The counter since last visit: the counter value since the last service visit
 - The last error generated by the system

The screen shows a button **Software versions**: this shows the software versions that are present in the total system.

- **Options**: shows option information and system information:
 - The chip ID
 - The system ID
 - The installed options

For installing new options, see 4.1 “Activate an Option” on page 42.

- **Job settings**: opens the “job settings” supervisor menu (see “Job Settings (Supervisor)” on page 16). From this menu system parameters can be set.
- **Test**: opens the “test menu” (see “Test” on page 18). Use this menu to test the system.
- **Online Services**: opens the “Online Services” menu (option, see 4.3 “Online Services” on page 48). This screen enables to connect the system to a server and receive messages.

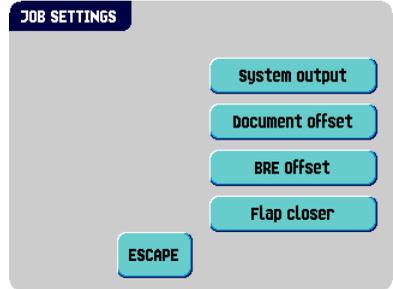
Job Settings (Supervisor)

Caution

Job settings normally will be changed by a service engineer only. Therefore first consult the supplier's Helpdesk before changing any settings. Changes to the job settings can result in malfunctioning of jobs.

The "job settings" menu (supervisor) can be opened from the "supervisor menu". From this menu system parameters can be set. The "job settings" menu shows the following functions:

- **System output**: opens the "mode menu" to set the output mode for a job (see "Mode Menu" on page 16).
- **document offset**: opens the "document offset" menu to set the document offset in a set of documents for a job (see "Document Offset" on page 17).
- **BRE offset**: opens the "BRE offset" menu to set the BRE offset on or off (see "BRE Offset" on page 17).
- **Flap closer**: opens the "flap closer" menu (see "Flap Closer" on page 18). Use this function to improve the envelope sealing process.



Mode Menu

When selecting from the "supervisor menu"

Job settings, **system output**, the "mode menu" appears.

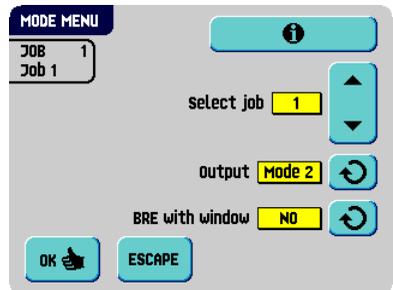
In this menu for each of the jobs 1 through 25 and load'n Go® a choice can be made between output

Mode 1 and Mode 2 using the  button. Mode 2 is the default setting.

Mode 1 focuses on the versatility of paper parameters (paper thickness; document length), i.e. correct operation under even extreme paper conditions.

Mode 2 focuses on high speed and is achieved as follows:

- During multi feed (more than one page from one feeder) the movement on the collator is minimal. In mode 1 the divert unit will be used for completing the collating process (less paper on paper transport).
- During the transportation of a set from the collator into the powerFold®, the next set is going into the collator already. This results in temporary overlapping sets with two different transport directions. In mode 1 the set has left the collator completely before the next set enters the collator.



- Anticipation call for the envelope is used. That means that a (folded) set is leaving the flexFeed® already before the envelope is ready on the insert position. In mode 1 the envelope is on the insert position already before the set leaves the flexFeed®.

It is advised to use Mode 1 with a paper thickness of 65 g/m² or less, a document length of 12 inch (305 mm) or higher, and for situations where Mode 2 is not functioning properly. In all other cases Mode 2 is advised.

If you select Mode 2, select if the reply envelope has a window or not.

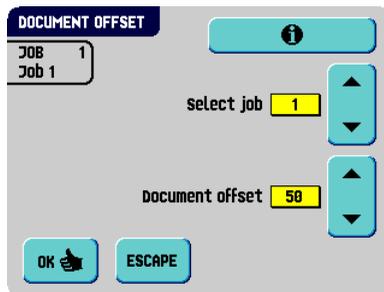
Document Offset

When selecting from the “supervisor menu”

Job settings, **Document offset**, the “document offset” menu appears.

The vertical transport of documents fed by the various feeders is arranged in such a way that the documents are partially overlapping each other. This overlapping scheme ensures that the documents are properly aligned in the collator area.

In the “document offset” menu you can set the extend to which the documents are not overlapping each other, i.e. the document offset value. The default value is 50 mm (2.0 inch). The document offset can be varied between 20 mm (0.8 inch) and 75 mm (3.0 inch).

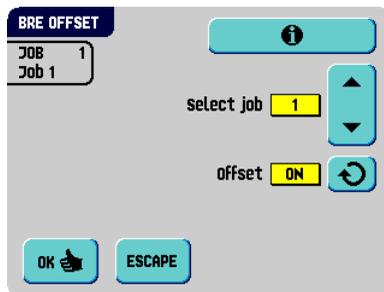


BRE Offset

When selecting from the “supervisor menu”

Job settings, **BRE offset**, the “BRE offset” menu appears.

If a document is longer than the set address fold but shorter than the envelope height, this document sometimes will be unnecessarily folded. Under certain conditions this document can be prevented from being folded. This can be implemented with the menu “BRE offset” (BRE means Business Reply Envelope).



For each of the jobs 1 through 25 and Lng (load'n Go®) an offset can be switched on or off using the  button.

In the case of offset “on” the last document that was added to the set will be shifted from the rest of the set (offsetting). This document will be held back during a certain distance. This means that the trailing edge of this upper document leaves the collator at last. This document will not be folded. During the insertion into the envelope the documents of the set will be realigned.

The conditions are:

- The feeder that supplies this upper document (BRE) is set to one document per set (no multi feeding).
- The document directly beneath this document must be at least 60 mm (2.4 inch) longer than the BRE.
- The upper document must be longer than the set address fold.
- The folding mode is either single fold or letter fold (no Z-fold).
- The upper document must be shorter than the envelope height.

Note

It is possible to use the BRE offset for a BRE and an enclosure (card) in one set. The extra condition is that this enclosure is equal to or smaller than the set address fold and should be placed direct underneath the BRE in the set.

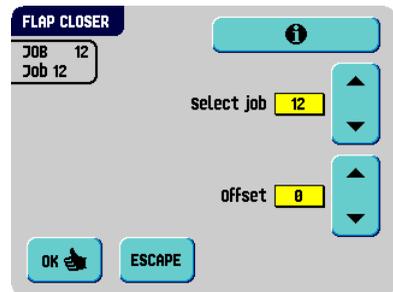
The whole BRE offset is based on friction between documents within a set. Therefore it is necessary to make use of these conditions to reduce the risk of bad transporting, folding and inserting.

Flap Closer

When selecting from the “supervisor menu”

Job settings, **Flap closer**, the “flap closer” menu appears. Use this function to improve the envelope sealing process for a job. The offset can be varied between -20 and 20. If for example the offset is set to +10 the sealing process will be activated 10 pulses later than initially.

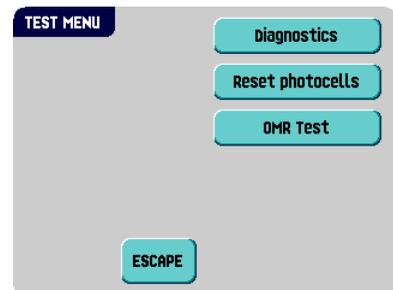
For each of the jobs 1 through 25 and Lng (load’n Go®) an offset can be set.



Test

The “test menu” menu can be opened from the “supervisor menu”. Use this menu to check the system, reset all photocells and execute an OMR test. The menu consists of the following functions:

- **Diagnostics**: use this function to check if all motors, clutches and sensors are correctly connected. This test derives the status of the actuators and clutches by briefly activating the actuators and then measuring the current.



Note

Remove all paper and close all covers before testing.

- **Reset photocells**: use this function to calibrate all photocells.

Note

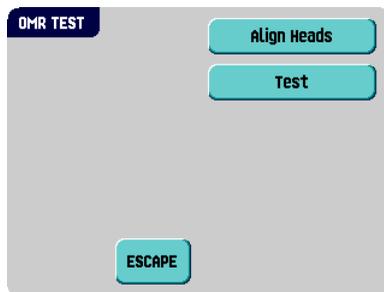
Remove all paper and close all covers before calibration.

- **OMR Test**: use this function to align and test the OMR reading head (see "OMR Test" on page 19).

OMR Test

The "OMR test" menu can be opened from the "test menu". Use this menu to align and test the OMR reading head (see "Reading Head Position" on page 43). The menu consists of the following functions:

- **Align Heads**: align the OMR reading head.
Put a document with reading marks in the feeder and press this button.
- **Test**: shows the mark quality and the number of read marks from the last processed document. Also the gain of the OMR amplifier is shown.



3. OPERATING INSTRUCTIONS

3.1 Installation

Caution

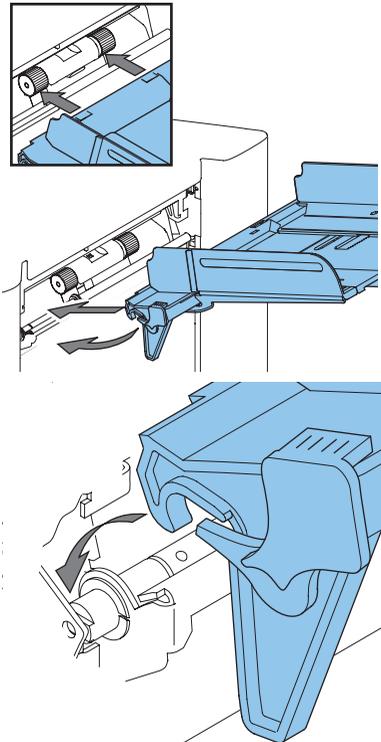
You can severely damage the machine if it is connected to the incorrect power supply. Before plugging in the machine, check if the local voltage is the same as the voltage mentioned on the type plate.

3.2 Preparation

3.2.1 Document Feed Trays

Place the document feed trays in position:

1. Hold the document feeder slightly inclined as shown in the figure.
2. Place the front end of the document feed tray underneath the two black rollers.
3. Move the document feed tray upwards (lifting the black rollers), until it is possible to 'hook' the feeder into place.
4. Move the document feed tray towards the machine and move the hooks over the mounting points (on both sides).
5. Let the document feed tray rest on the machine.



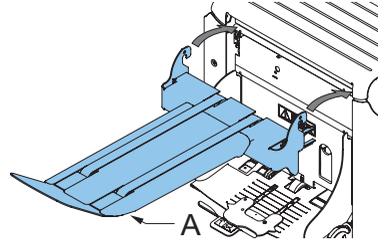
3.2.2 Conveyor Stacker

Place the conveyor stacker in position:

1. Position the fork in a forward direction.
2. Move the conveyor as indicated by the arrows.
3. Lift the conveyor with the suspension hooks over the two rods (upper and lower) and lower it.

Ensure that the fork hooks onto the eccentric.

4. Loosen finger knob **A** (located below the envelope support) and carefully rotate the envelope support until it is fitted correctly.
5. Fasten the finger knob.
6. Connect the connector.

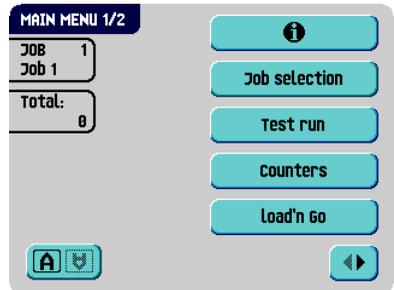


3.3 Starting Up

To start up the system:

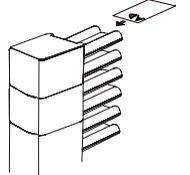
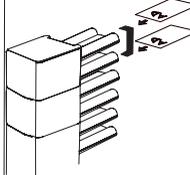
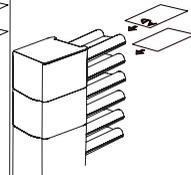
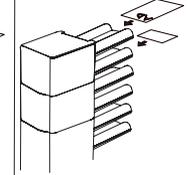
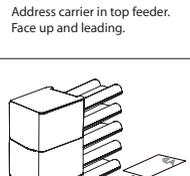
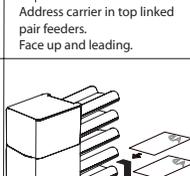
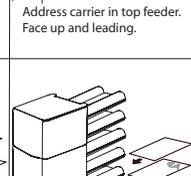
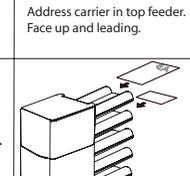
1. Connect the machine to the mains power supply.
2. Use the power switch to switch the machine on. The power switch is located on the back of the machine.

The display shows "main menu (1)" (the main displays are described in 2.4.1 "Main Menu" on page 10).

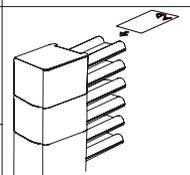
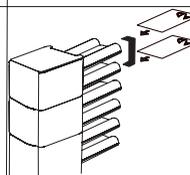
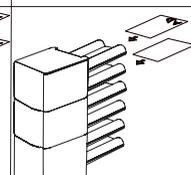
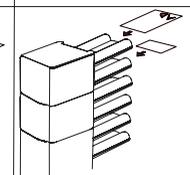
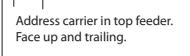
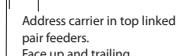
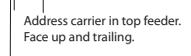
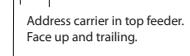


3.4 Loading Documents

3.4.1 Document Orientation

Fold type		Type of documents			
		one document	hopper swap	two documents	document + enclosure
no fold	single fold				
letter fold	double parallel fold				
zig-zag fold					

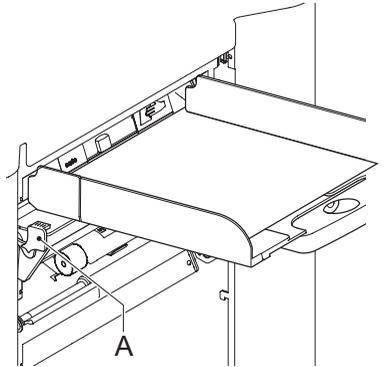
In case the optional extended powerFold[®] is installed, the following feeding rules apply to documents with bottom address position:

Fold type		Type of documents			
		one document	hopper swap	two documents	document + enclosure
no fold	single fold				
zig-zag fold					

3.4.2 Side Guides

To adjust the side guides it is best to remove the document feed tray from the feeder as follows:

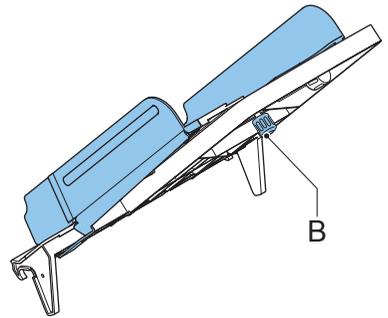
1. Push handle **A** downwards.
2. Lift the document feed tray upwards to unhook it and then pull it out from the feeder.



3. Loosen the knob **B** half a turn.
4. Grab the side guides in the middle and push them apart as far as possible.
5. Put a small stack of documents between the side guides.
6. Grab the side guides in the middle and push them towards the documents.

The space between the side guides and the documents should be such that the documents have just enough play to move freely.

7. Re-tighten knob **B**.
8. Remove the stack of documents.
9. Replace the document feed tray (3.2.1 "Document Feed Trays" on page 20).



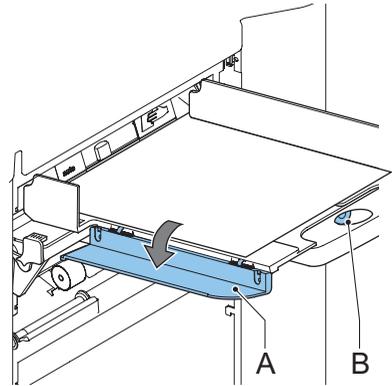
3.4.3 Document Separation

The term 'Document separation' refers to the adjustment required for separating the upper document from the rest of the documents in the stack. This prevents picking up too much documents from the stack at the same time.

The document separation for the *automatic feeders* is set automatically. There are no manual adjustments needed.

The document separation for *special feeders* must be adjusted manually as follows:

1. Push the knob **B** forward until it clicks.
2. Open the left-hand side guide **A** by turning it downwards.
3. Place a document on the feed tray and slide it about 60 mm (2.4 inch) into the system (turn the knob **B** counter clockwise if the separation is set to narrow).
4. Push the document between the separation rollers, which are behind the rubber paper pullers.
5. Turn the knob **B** clockwise to get more resistance or counter clockwise to lower the resistance.



The separation is adjusted correctly when a slight resistance is felt on the document.

6. Pull the knob **B** back again when ready.
7. Close the left-hand side guide.

3.4.4 Filling the Document Feed Tray

Fill the document feed tray as follows:

1. Open the left-hand side guide **A** by turning it downwards.
The feed rollers will automatically be lifted.
2. Place a stack of documents between the side guides.
3. Turn the left side guide upwards again.
4. Feed the documents (depending on the type of documents and the type of fold) as shown in 3.4.1 "Document Orientation" on page 22.

3.4.5 Adjustment of the Document Stoppers

The document stoppers mark the position at which the documents coming from the feeder turn towards the folding area. The position of the document stoppers is automatically determined by the system during the job programming.

Initially the document stoppers are adjusted for position B. In this position a wide variety of documents can be handled (max. 297 mm; 11.7 inch) and adjustment is not needed.

When a job is selected in which a different stopper position has been programmed, the operator has to put the document stoppers in the correct position as indicated by the display.

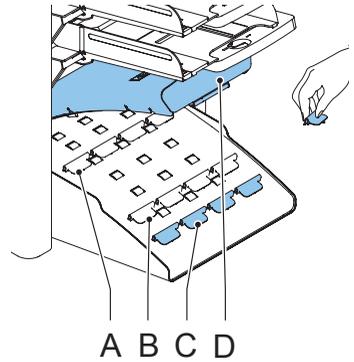
To adjust the stopper position:

1. Lift and hold the collator arm **D**.
2. Squeeze the stopper and pull the front side tab up.

To replace the stopper:

1. Place the flat back tab into the slotted hole.
2. Push the stopper into position.

Stop position **A** can handle documents up to 148 mm (5.8 inch), stop position **B** can handle documents up to 297 mm (11.7 inch) and stop position **C** can handle documents up to 356 mm (14 inch).



3.5 Loading Envelopes

3.5.1 Adjusting Side Guides

Adjust side guides **C** by rotating thumb wheel **D**, so that the envelopes:

- Fit exactly between the side guides
- Can move freely

Note

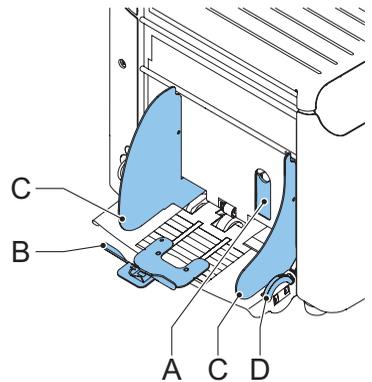
If the distance between the side guides is too large, the envelopes will twist sideways, when transported into the machine.

3.5.2 Envelope Separation

To set the envelope separation:

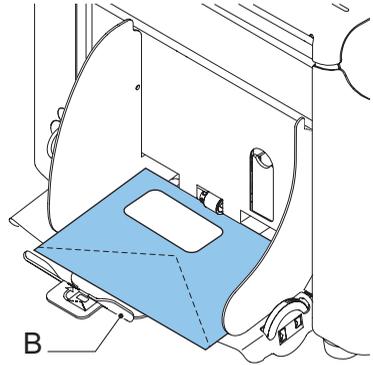
1. Pull down small lever **A**.
2. Insert one envelope up to the stoppers.
3. Return lever **A**.

Now the envelope separation is set.



3.5.3 Feeding Envelopes

1. Place the bottom envelope between the rollers (flap down and trailing - bottom side of envelope pointing to the machine).
2. Loosen the stack of envelopes and place the stack on top of the bottom envelope.
3. Shift envelope support **B** in or out, so that the flap side of the envelope is lifted approximately 20 mm (0.8").
4. Turn envelope support **B** so the weight of the envelopes is distributed evenly on both sides.



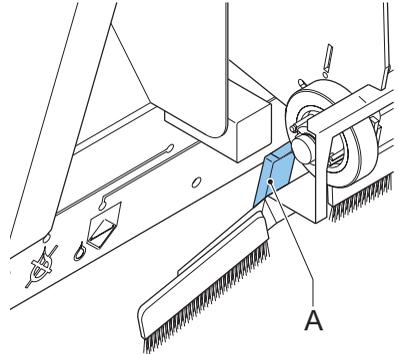
3.6 Sealing Envelopes

Note

Refer to 5.1 "Operator Maintenance" on page 54 as well.

Switch the envelope sealing on or off:

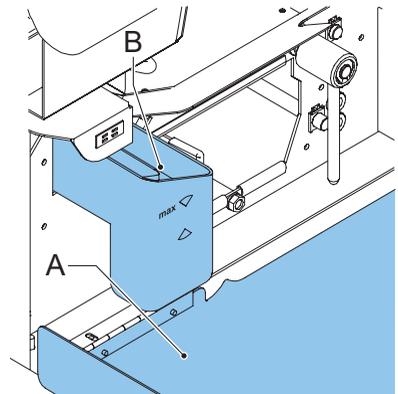
1. Lift the handgrip to open the top cover.
2. Shift the blue handle **A** towards  to disable the envelope sealing or towards  to enable the envelope sealing.
3. Close the top cover.



When the sealing of the envelopes is enabled, the sealing liquid reservoir must be filled:

1. Open the front cover **A**.
2. Fill the reservoir **B** to the "Max" level indication with sealing liquid.
3. Close the front cover **A**.

Before starting the job, wait approximately 5 minutes for the brushes to moisten.



3.7 Job Selection or load'n Go®

When you are ready with the preparations (paragraph 3.2 to 3.6) continue using the load'n Go® function (see 3.7.1 "Using load'n Go®" on page 27) or select another job and perform a test run (3.7.2 "Select Another Job" on page 29).

The load'n Go® feature determines automatically its job settings by measuring the sizes of documents and envelope. From all feeders that are loaded one sheet will be taken. Based on the maximum document length (which is also the length of the document-set) and the length of the envelope the fold type is determined.

3.7.1 Using load'n Go®

When load'n Go® is started, the machine will pick one sheet from each filled feeder. The picked documents will be folded (if necessary) and inserted into an envelope.

Only the feeders that feed successfully will be selected. In the load'n Go® job only the Double Feed Control (DFC) of the upper feeder will be selected (automatically).

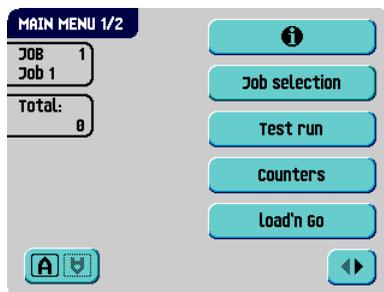
Note

Load'n Go® cannot be used together with linked feeders and multifeed functionality. The function load'n Go® is not possible in the no envelopes mode or with usage of envelopes with open flap.

Note

Before starting load'n Go®, be sure that no documents or envelopes are left in the machine.

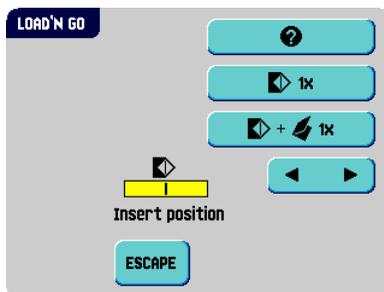
1. Load envelopes.
2. Load the documents face up and leading.
Place the address carrier in the upper feeder.
3. From the "main menu (1)", press



The "load'n Go®" menu is displayed.

4. Press  to load one envelope to the insert position in the machine.

The envelope is visible through the window in the top cover.



Insert Position

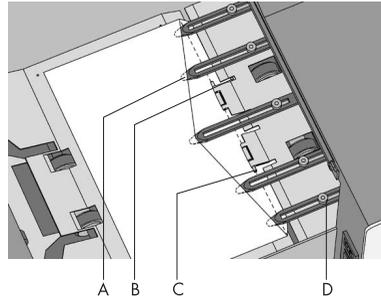
Note

This adjustment must only be checked in case of problems or when changing the envelope type.

1. Lift the locking lever of the loc and pull the loc into the vertical position.

The flap folding line must be positioned under the green indicator **C**. If not, adjust the insert position as follows:

2. Press on the left or right side of  to adjust the insert position to the left or the right. Each button stroke stops the next envelope 0.5 mm (0.02 inch) to the right (earlier) or to the left (later).



3. Press  to load a new envelope into the insert position.
4. Recheck the insert position, and adjust as required.

If necessary adjust the envelope insert fingers, see "Adjust the Envelope Insert Fingers" on page 28.

Adjust the Envelope Insert Fingers

To adjust the envelope insert fingers:

1. Loosen the knurled knob **D** on top of each finger.
2. Adjust each finger so that the tip enters about 5 mm (0.2 inch) into the envelope.
3. Re-tighten the knurled knob.

The fingers can be moved sideways to the desired position.

Caution

*When adjusting the fingers sideways, be sure that finger **A** is not positioned over sensor **B**. When an incorrect finger position is adjusted the display shows an error screen.*

4. Place the outer fingers about 5 to 10 mm (0.2 to 0.4 inch) from the edges of the envelope.

Check the position of the insert fingers when changing to a different type of envelope.

Address Position

When the envelope position and the position of the fingers is correct:

1. Press  to load a folded sheet into the envelope.

The envelope will be sealed (when enabled, refer to 3.6 "Sealing Envelopes" on page 26) and ejected to the conveyor stacker.

2. Check the position of the address in relation to the address window in the envelope.

- If necessary, press the Up or Down button to adjust the address position.
Each key stroke brings the address 1 mm (0.04 inch) with a maximum of 12 mm (0.48 inch) lower or higher.
If the required address position is beyond the maximum range of 24 mm (0.96 inch), the load'n Go[®] function can not be used. Use a programmed job instead.
- Press  to make another test run.
- Recheck the position of the address, and adjust as required.
- Press  to leave this screen to return to the "main menu (1)" or press the  button to immediately start the job.

Starting the Job

To start a job:

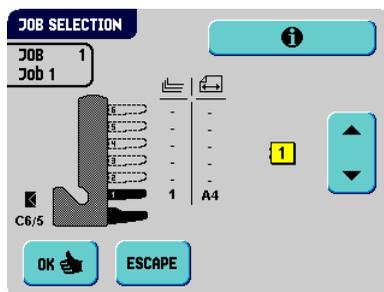
- Press the  button to start the job.
During running the display shows the "inserting" menu.
- Press the  button to stop the job. The machine will stop immediately.
- Press the  button to clear the document path to prepare the machine for a new job.

When a load'n Go[®] job is defined successfully these settings can be stored into a job. Use the copy function in the job menu (see 3.11 "Copy a Job" on page 40) to store the settings.

3.7.2 Select Another Job

To select another job:

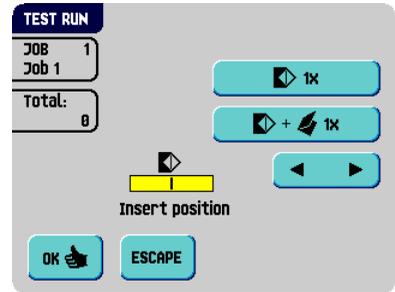
- Press  to select another predefined job.
- Press the arrows to select another job number.
The screen shows the job options of the relevant job (see 2.4.2 "Job Info" on page 12).
- Press  to confirm the selected job.



Perform a Test Run

To perform a test run:

1. Press  to display the “test run” menu.
A message can appear: “Set manual feeding” or “Set automatic feeding”. In that case:
 - a Check if the daily mail handle is in the correct position (see 3.8 “Run the Daily Mail” on page 30).
 - b Correct if necessary.
 - c Press the  button.
 - d Press  again.
The “test run” menu displays.



2. Press  to load a new envelope into the insert position. This gives the possibility to check and correct the insert position of the envelope (see “Insert Position” on page 28).
3. When the envelope position and the position of the fingers is correct, press  to load a folded sheet in the envelope.
The envelope will be sealed (when enabled, refer to 3.6 “Sealing Envelopes” on page 26) and ejected to the conveyor stacker.

When finished testing start the job (see “Starting the Job” on page 29).

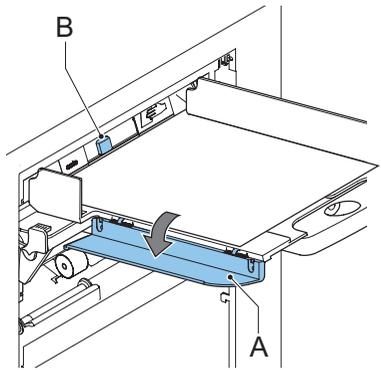
3.8 Run the Daily Mail

To process documents or sets of documents, which can not be processed automatically (e.g. stapled documents), the top feeder is equipped with a daily mail switch.

To switch to the daily mail function:

1. Select a job where the daily mail function has been set to on:
 - a From the “main menu (1)”, press .
 - b Search for a job with the daily mail function using the arrows. The daily mail function can be recognized by the  icon in the “job info” screen.
 - c Press  to select the job and return to the “main menu (1)”

2. Turn left side guide **A** of the upper tray down.
The Daily Mail handle **B** will become visible.
3. Move the handle to  to enable the Daily Mail function.
4. Turn left side guide **A** upwards.
5. Place the document or document set in the feeder.
If necessary adjust the side guides (see 3.4.2 "Side Guides" on page 23).



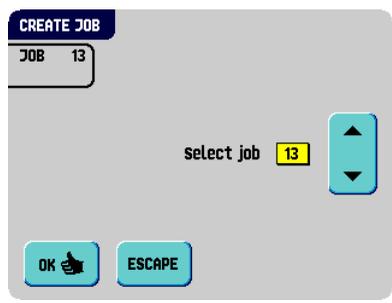
6. Press the  button to start the job.
The document or document set will be folded and inserted in the envelope as described in the selected job.
7. Place the following document or document set in the feeder. The machine will keep running to process the inserted document or document set.
8. When finished with Daily Mail, press the  button to stop the job.
9. Turn left side guide A down.
10. Move the Daily Mail handle to the 'AUTO' position to disable the Daily Mail and to enable the automatic document separation.

3.9 Create a Job

To create a new job:

1. Press  from "main menu (2)" (see 2.4.1 "Main Menu" on page 10).
2. Enter the pin code.
The "job menu" opens (see 2.4.5 "Job Menu" on page 14).

3. Press .
- The "create job" menu appears. The new job must be stored under a job number. The screen will show the lowest free job number.
Press the arrows to select a higher or lower free job number (if available).



4. Press  to confirm the selected free job number.
The "job settings" screen opens. The meaning of all buttons and settings will be explained in 3.9.1 "Job Settings" on page 32.

- Press  to save the job with the entered settings under the specified job number and name.

To name a job, see 3.9.7 "Job Name" on page 38.

- Press  to perform a test run with the new job settings (see "Perform a Test Run" on page 30).

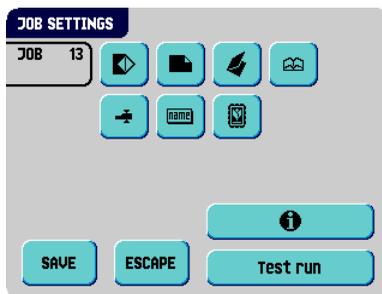
Note

A new selected job number starts with default settings.

3.9.1 Job Settings

From the "job settings" menu the following settings are available:

-  Envelope settings (see 3.9.2 "Envelope Settings" on page 32)
-  Document settings (see 3.9.3 "Document Settings" on page 33)
-  Fold settings (see 3.9.4 "Fold Settings" on page 34)
-  Optical Mark Recognition (OMR) settings (if installed) (see 3.9.5 "Optical Mark Recognition Settings (Option)" on page 36)
-  Double feed control settings (see 3.9.6 "Double Feed Control Settings" on page 37)
-  Job name settings (see 3.9.7 "Job Name" on page 38)
-  Mailing/Franking settings (if installed) (see 3.9.8 "Mailing/Franking Settings (Option)" on page 39)



3.9.2 Envelope Settings

In this screen the properties of the used envelopes must be entered.

In the top of the screen, two selection buttons are displayed, from which one can be selected. The selected settings button will be highlighted yellow.

- Press  to select an envelope size. Use the  button to enter the applicable dimensions.

It is also possible to select ISO standard envelopes or dimensions in inches (depends on the installation settings).



The envelope height can be set between 90 mm (3.5 inch) and 162 mm (6.38 inch).

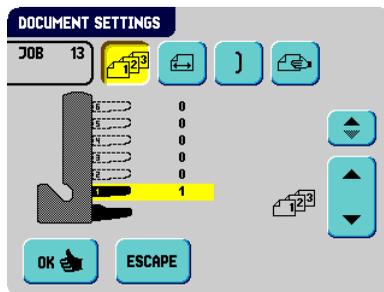
- Press  to set a job without inserting the documents in envelopes (no envelope mode). This can be useful for jobs, where documents only have to be sorted and/or folded.

3.9.3 Document Settings

This screen enables the setting of the document formats and the number of documents that must be picked from the different feeders.

- Press  to set the number of sheets for the different feeders.
 - Press  to select a feeder. The selected feeder will be highlighted.
 - Press the arrows to change the number of sheets that must be picked from the highlighted feeder.

When the number of documents is 0, the relevant feeder will be deselected.



Note

When a feeder is set to daily mail the number of documents is always 1 and can not be set in this screen.

Note

The maximum number of sheets per feeder is 25. When folding is used the maximum set thickness is 8 sheets in letter fold and 10 sheets (80 gr./m²) in single fold. When using powerFold® and bottom address (see 3.9.4 "Fold Settings" on page 34) the number of sheets is limited further.

- Press  to enter the document height. The height or the ISO format of the document will be displayed next to the relevant feeder.
 - Press  to select a feeder. The selected feeder will be highlighted.
 - Press  to display a numeric keypad to enter the exact dimension of the document.

Dimensions can be entered in mm, inches or as standard ISO paper dimensions (depending on installation settings). The machine will not allow entering dimensions outer technical ranges. The document size can be set between 90 mm (3.54 inch) and 356 mm (14 inch). The default document size setting of a new job is 297 mm (11.7 inch).

- Press  to link two feeders. This function enables to fill two adjacent feeders with the same documents. When the first feeder is empty, the system automatically swaps to the other feeder.
 - Press  to select two adjacent feeders. The selected feeders will be highlighted.
 - Press  to link two highlighted feeders.

The  will be displayed between the selected feeders.

Note

When linking two feeders, the program will automatically apply the number and format of the documents of the lowest feeder to the other feeder.

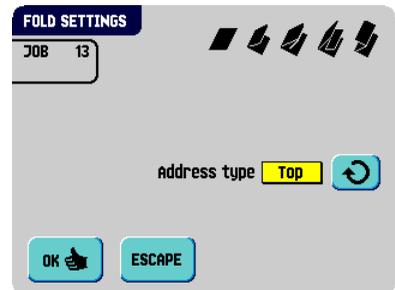
- Press  to enter the setting of the Daily Mail function.
This function enables to process documents or sets of documents, which can not be processed automatically (see 3.8 "Run the Daily Mail" on page 30). The feeder that is fit for the Daily Mail function will automatically be selected.
 - Press  to enable the Daily Mail function. The icon  appears behind the daily mail feeder. If you press  again the Daily Mail function will be disabled.

3.9.4 Fold Settings

This screen enables the adjustment of the folding dimensions and the address type.

If the system is equipped with a third fold table and turning unit ('extended powerFold®') the "fold settings" menu consists of two parts:

- In the first part you can set the Address type. You can switch between Top and Bottom using the  button. If you choose Address type Bottom you only have three possible fold settings left.

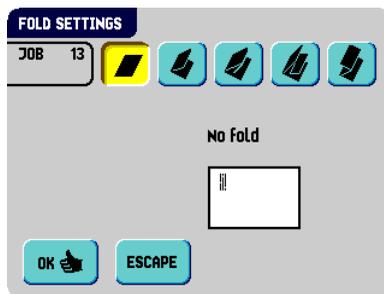


After pressing the  button the second fold setting screen opens.

- In the second fold setting screen you can select the fold type.

The following choices are available:

-  No fold (no settings required)
-  Single fold
-  Letter fold
-  Double parallel fold
-  Zig-zag fold



Except when no fold is required, the display shows a simple diagram of the document with the fold positions. To change the fold positions press  next to a fold. Enter the required position of the relevant fold.

The next table shows possible fold positions:

Fold type		Minimum position	Maximum position
Single fold		75 mm (2.95") 25 mm (0.98") (extended powerFold®)	Longest document length minus 25 mm (0.98")
Letter fold	First fold	75 mm (2.95") 25 mm (0.98") (extended powerFold®)	Longest document length minus 50 mm (1.97")
	Second fold	Position first fold plus 25 mm (0.98")	Longest document length minus 25 mm (0.98")
Zig-zag fold	First fold	75 mm (2.95") 25 mm (0.98") (extended powerFold®)	Longest document length minus 100 mm (3.94")
	Second fold	Position first fold plus 25 mm (0.98")	Longest document length minus 75 mm (2.95")
Double parallel fold	First fold	75 mm (2.95") 25 mm (0.98") (extended powerFold®)	Longest document length minus 50 mm (1.97")
	Second fold	Position first fold plus 25 mm (0.98")	Longest document length minus 25 mm (0.98")

Note

The display will indicate when entered positions are out of range.

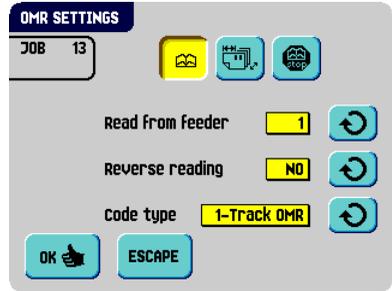
3.9.5 Optical Mark Recognition Settings (Option)

For a full function description of Optical Mark Recognition (OMR), see 4.2 "Optical Mark Recognition (OMR)" on page 42. Flex-OMR is also optional. Flex-OMR can read non-Neopost codes.

In the "OMR settings" menu it is possible to enable or disable the OMR function and to adjust the basic settings for OMR.

The first "OMR settings" menu covers the following settings:

- Code type: default is the setting "none": OMR is disabled.



Change the setting using the  button. The following codes are possible:

- 1-track OMR for reading Neopost codes
- Flex 1-9 for reading non-Neopost codes
- Read from feeder: press the  button to select a feeder to activate OMR on.
- Reverse reading: reverse reading means that the insert mark is on the first page of the set. The system will detect the end of a set by detecting the first page of the next set. Because of the feeding and collating principal reverse reading has the following limitations:
 - The last mark of the code should be printed maximally 85 mm (3.3 inch) from the top.
 - Enclosures and selective enclosures cannot be handled.

In case the feeder runs empty the last set is still on the collator because the beginning of the next set could not be detected. In this case the feeder empty message contains

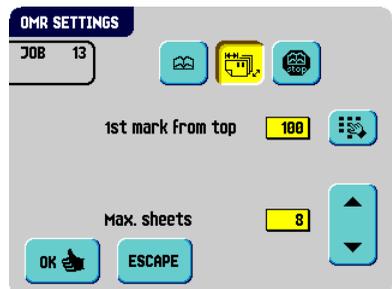
an  function. By pressing the  button the set on the collator will be inserted.

Note

Reverse reading is not available in OMR level 0, 1, 2 and 3.

By pressing the  button the next "OMR settings" menu appears. This menu covers the following settings:

- 1st mark from top: press  to set the position of the first optical mark, measured from top of the sheet. The value can be varied between 15 mm (0.6 inch) and 277 mm (10.9 inch).



- Max. sheets: select the maximum amount of sheets in the set of documents using the arrow buttons.

Note

The maximum number of sheets in a set is 25. When the number of sheets exceeds 8 or 10, depending on the fold, the document can not be folded anymore. In this case, the maximum length of sheets is 156 mm (6.1 inch) for a C5 envelope. Also make sure that the fold is set to **No fold**.

Ignoring this will certainly lead to stoppages.

When the maximum number of sheets exceeds the programmed maximum number of sheets in a set, the machine stops and error VS:110 will be displayed. After removing the

set and pressing the  button, the machine will start and repeat the process until an insert or divert mark is encountered, error VS:135 (final set part) will be displayed.

By pressing the  button the next "OMR settings" menu appears. This menu covers the following setting:

- Stop on misread: press  to set if the machine should stop or not on misreading an optical mark.

When "stop on misread" is set to "yes", the machine stops after detecting an OMR misreading. The incorrect set is diverted. After resetting the machine, the final part of the set is also diverted and the system starts processing again. The diverted set(s) should be checked by the operator.

When "stop on misread" is set to "no" the machine does not stop after detecting an OMR misreading. The incorrect set is diverted. The final part of the set is also diverted and then the machine starts processing again. After detecting 5 OMR misreadings in a row, the system stops and an error code is generated.

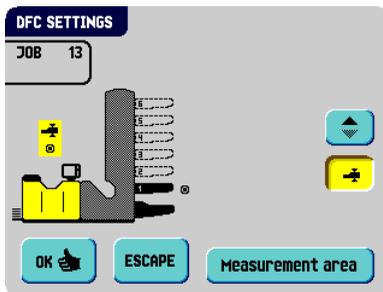


3.9.6 Double Feed Control Settings

This screen enables to set the Double Feed Control (DFC) settings for the different feeders on or off and to set the thickness measurement.

To set the DFC for the different feeders:

1. Press the  button to select a feeder.
2. Press the  button to switch the DFC on -  or off - .



If the DFC is on you can set Continue on double on or off using the  button. If Continue on double is on ("yes"), the machine will not stop if two sheets are feeded instead of one. The document-set containing the double sheets will be diverted.

When a job is started, the first document taken per feeder is used for a reference measurement. When a document is exceeding that reference thickness an error will be displayed.

Note

When Daily mail is selected, the DFC will be switched off automatically.

To set the thickness measurement:

1. Press the  button to select the inserter area.
2. Press the  button to switch the thickness measurement on -  or off - .

If the thickness measurement is on you can set the measurement area:

3. Press the  button.
4. Set the measurement area using the arrow buttons.

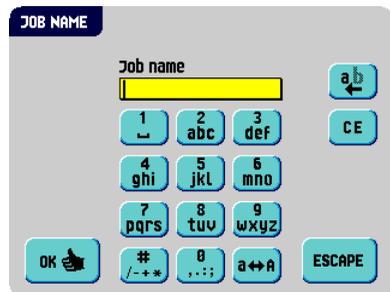
The standard position of the measurement area is sufficient for a great variety of documents. Only when using special types of documents, for example small cards, the position of the measurement area might be adjusted.

When the set thickness is not corresponding the reference value an error will be displayed.

3.9.7 Job Name

It is possible to store the job with a meaningful job name, to easily recognize the job. This name will be displayed in the Main screen during job selection.

1. Enter a job name using the alpha-numeric keypad.
2. Press  to clear a character left of the cursor position (backspace).
3. Press  to clear all entered characters and start again.

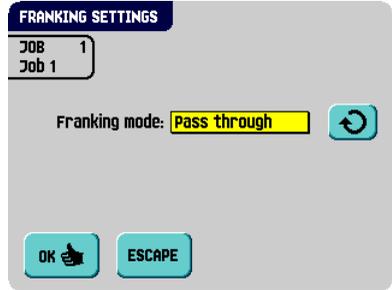


3.9.8 Mailing/Frinking Settings (Option¹)

If this machine is connected to a mailing/franking machine, this option allows you to select the franking mode.

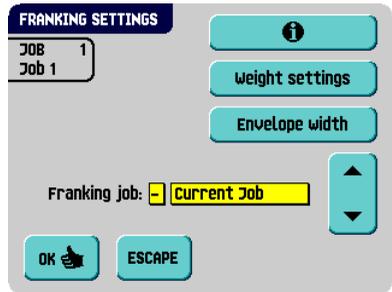
Press the  button to select:

- Pass through
The mailing (franking) machine will let the envelopes pass through without printing/franking. Press the  button to return to the "job menu".



- Franking machine
The mailing (franking) machine will print/frank the envelopes according to the local mailing (franking) machines settings.

If you press the  button a screen appears in which it is possible to link a mailing (franking) job to the inserter job. Use the arrow buttons to select a job. If no link is required, select



"Current job". Press the  button to return to the "job menu".

- Inserter data
The mailing (franking) machine will print/frank the envelopes according to the weight and size data communicated by the inserter.

If you press the  button a screen appears via which the weight of single documents and envelopes and the envelope width can be entered. Use the

 and  buttons to enter these data. Press the  button to return to the previous screen.

To link a mailing (franking) job to the inserter job, use the arrow buttons to select a job. If no link is required, select "Current job". Press the  button to return to the "job menu".

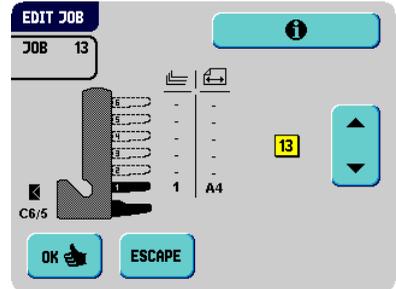
Refer to the appendix for an extensive description of this option.

1. Ask your supplier if this option is available in your country, and for your mailing/franking machine.

3.10 Edit a Job

To edit an existing job:

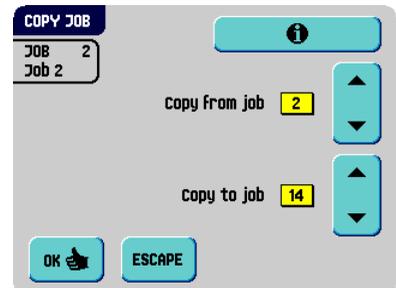
1. Press **Job menu** from "main menu (2)" (see 2.4.1 "Main Menu" on page 10).
2. Enter the pin code.
The "job menu" opens (see 2.4.5 "Job Menu" on page 14).
3. Press **Edit job**.
The "edit job" menu appears.
4. Press the arrows if you want to select an other job number.
5. Press **OK** to confirm the selected job number.
The "job settings" screen opens. Refer to 3.9.1 "Job Settings" on page 32 for the meaning of all buttons and settings.
6. Press **SAVE** to save the job with the entered settings under the specified job number and name.
To name a job, see 3.9.7 "Job Name" on page 38.
7. Press **Test run** to perform a test run with the new job settings (see "Perform a Test Run" on page 30).



3.11 Copy a Job

To copy existing job settings or load'n Go® jobs to a new job:

1. Press **Job menu** from "main menu (2)" (see 2.4.1 "Main Menu" on page 10).
2. Enter the pin code.
The "job menu" opens (see 2.4.5 "Job Menu" on page 14).
3. Press **Copy job**.
The "copy job" menu appears.
4. Press the arrows if you want to select an other job number to copy from or to copy to.



Note

You can only copy job settings to new jobs.

5. Press  for details of the job to copy from.

6. Press  to copy the job settings.

If all jobs are programmed the display shows "No more free jobs".

It is possible to copy a load'n Go[®] job into a job. Before a load'n Go[®] job can be copied load'n Go[®] has to be defined successfully (see 3.7.1 "Using load'n Go[®]" on page 27).

3.12 Delete a Job

To delete an existing job:

1. Press  from "main menu (2)" (see 2.4.1 "Main Menu" on page 10).

2. Enter the pin code.

The "job menu" opens (see 2.4.5 "Job Menu" on page 14).

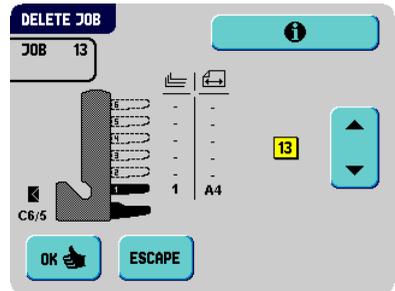
3. Press .

The "delete job" menu appears.

4. Press the arrows if you want to select an other job number.

5. Press  for job details.

6. Press . The job will be deleted without a warning.



4. OPTIONS

4.1 Activate an Option

To activate a new option:

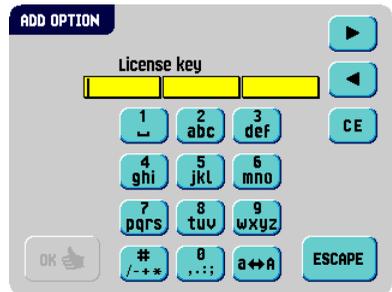
1. From the "supervisor menu" choose .

Software options are enabled using license codes. These license codes, together with the identification number of the machine enable the relevant options. The enabled and available software options are displayed in this screen. Contact your dealer for information about these license codes.

2. Press  to activate other software options.
3. Enter the license key code that you received from the supplier to activate the relevant option on this machine.

Use the arrow keys to navigate through the entered characters.

4. Press  to confirm the license key and to return to the "options" menu.
5. Switch the system off and on.



4.2 Optical Mark Recognition (OMR)

4.2.1 General

The folding and inserting system can be equipped with Optical Mark Recognition (OMR) or Flex-OMR. This allows the system to read special codes that have been printed on the documents. These codes contain information about the processing of the sheets. With Flex-OMR, the system can also 'read' non-Neopost codes.

The sheets with the printed code are placed in a feeder. Depending on the programmed code, the other feeders can be used as selective feeders to add enclosures.

In case of a zig-zag fold, the address has to be printed on the last page of the set. With the other fold types, the first sheet of a set always contains the address. A full length code is printed on every sheet of a set.

The code on the last sheet of the set contains the insert instruction. The other sheets carry the accumulate instruction. If a parity check is used, this is checked on each sheet. If the set contains only one sheet, it is the 'last' sheet. The code must appear in the same location on every page regardless of the actual code length.

4.2.2 Alignment

Reading Head Position

The horizontal position of the reading head must be aligned to the same position of the printed marks on the documents. To align the reading head, proceed as follows:

1. Open the "OMR test" menu from the "Test menu" (refer to 2.4.6 "Supervisor Menu" on page 14).

2. Press  to start the alignment procedure.

3. Put a document with reading marks in the feeder (either feeder 1 or 2, depending on the selected job).

4. Press .

The document will be transported to the reading head position.

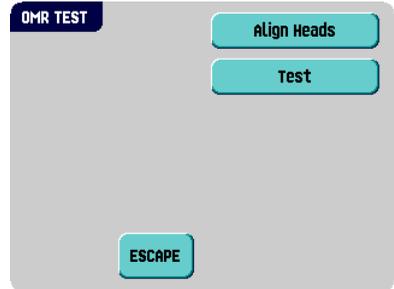
5. Open the special OMR reading head cover in the feeder.

6. Shift the reading head until the red pointer is positioned exactly above the middle of the reading marks.

7. Open the vertical transport cover and remove the document.

8. Press  to determine the alignment.

9. Press  to finish the alignment procedure.



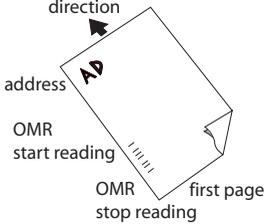
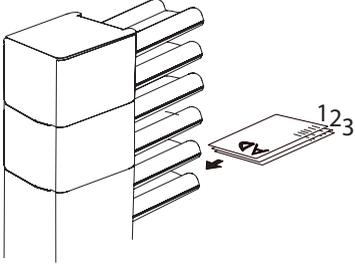
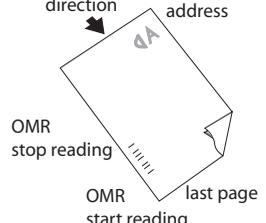
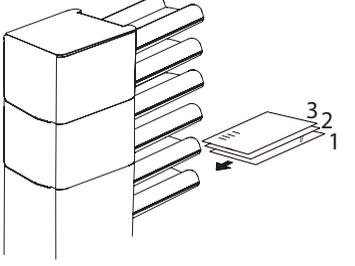
Note

When the reading head is aligned it is possible that paper guides have to be removed and placed on the other side of the reading head.

4.2.3 Document Orientation

Switch on the OMR-function and set the position of the reading marks as described in "Optical Mark Recognition Settings (Option)" on page 36.

Document orientation:

Fold type		Type of documents	
 no fold	 single fold		 Address carrier, face up and leading.
 letter fold	 double parallel fold	(duplex printed) 	 Address carrier, face down and trailing.

4.2.4 OMR Codes

Printing Quality

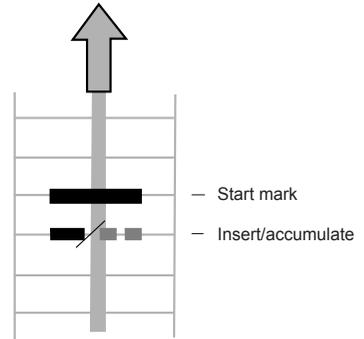
- Marks should be printed in black.
- Marks on the same sheet must have equal intensity.
- Marks must be printed on the same position on every sheet.
- For matrix printers near letter quality (NLQ) printed characters are preferred to obtain maximum blackness (double strike).
- Be aware of background 'noise'. Color changes on the form, background design, a logo or copy on the opposite side of the sheet that will bleed through can be read by the reading head causing disturbances of the OMR function.
- The ribbon or toner quality must be checked before printing.

Minimum Code / Basic Commands

The minimum code is one mark in one line (insert). However for reliability it is advised to use at least 2 marks.

The first line is the start mark.

A mark printed on the second line means insert. No mark on the second line means accumulate.



Note

In some cases, on request of the customer, the reading of the basic commands can be reversed by the service organization. This means that no mark is interpreted as an insert command and that for the accumulate command a mark has to be printed.

Length

Above the first mark and below the last mark a space of 8.5 mm (0.33") must be kept without printing. This means that the minimum code area consists of 6 lines:

- 2 lines to print the (basic) commands
- 4 lines free space

Line distance may be 2.54 mm (0.1") to 6.35 mm (0.4").

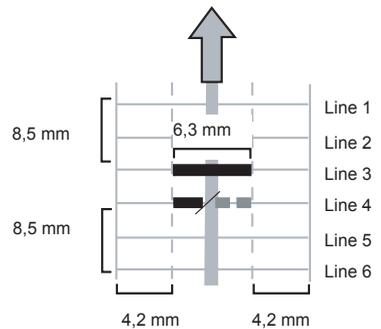
Code Width, Character Spacing and Pitch

The minimum width of the code area is 7 character spaces. From left to right:

- 2 characters space not printed (4.2 mm; 0.17")
- Track mark (3 characters or 6.3 mm; 0.24")
- 2 character spaces not printed

Pitch 10 or 12 is accepted.

The track mark can be printed using the underline sign (), which must have a thickness of at least 0.2 mm (0.08").



Additional Marks

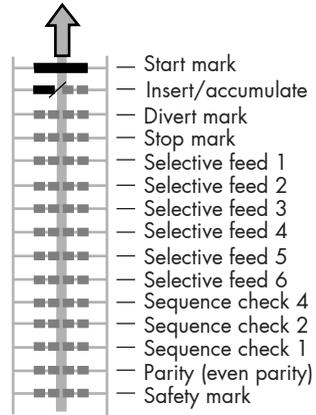
When it is required to control more functions in the inserter system, the use of more marks is needed.

The following additional functions are possible via software options:

- Divert mark (divert & continue)
- Stop mark (divert & stop)
- 1 mark: selective feed from station x (max. 6 depending on configuration)
- 1, 2 or 3 marks: respectively sequence check 4, 2 and 1
- 1 mark: parity check mark (even)
- 1 mark: safety mark

General remarks:

- The marks must always be used in the above sequence.
- If a function is suppressed the following function will move upwards one line.
- The chosen code must always be used on all material which must be processed by the Optical Mark Recognition.
- The length of the code and the mark definition is a service setting.
- Other marks/functions are possible via special codes (Flex codes).



Divert Mark (Divert & Continue)

The set will be diverted and the system continues.

Stop Mark (Divert & Stop)

The set will be diverted and the system stops indicating error VS:113 (stop mark read).

Selective Feed Mark

The machine will selectively feed an enclosure when commanded so.

Sequence Check

Sheets in a stack can accidentally get out of sequence or can be missing. This can be detected by the sequence check.

Each sheet has a binary code that is a part of the reading code.

Parity Mark

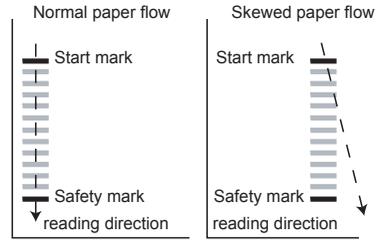
By adding a parity mark the reading code can be checked. When the OMR-2 code is used the sum of the marks has to be even.

Safety Mark

The safety mark is used as an extra security. With skewed paper the reading head can miss part of the reading code. In these situations the safety mark is not read, and the system will give an error.

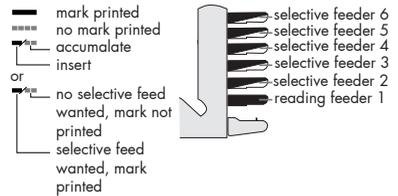
The safety mark also indicates the end of the reading code.

This mark must always be present on the document if it has been activated as an OMR code.



Examples of OMR Code

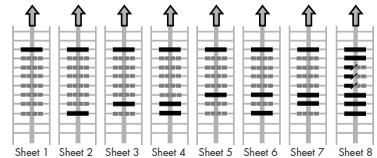
In the figure the legend for the following example is shown. In this example feeder station 1 is the reading feeder. The feeder stations 2 through 6 are selected for selective feeding.



Example Code

In this example a set of 8 sheets with three selective feeds (station 2, 3 and 4) and three sequence check marks is shown.

- The first position is used for the start mark which must be printed on every sheet.
- The second mark position is used for the insert/accumulate command. The mark is printed on the last sheet of the set (inserting is required).
- Position 3, 4 and 5 are reserved for selective feeding from station 2, 3 and 4. Print a mark on position 3 when a selective feed from station 2 is required. Print a mark on position 4 when a selective feed from station 3 is required. Print a mark on position 5 when a selective feed from station 4 is required.
- Position 6, 7 and 8 are used for the sequence check marks.



4.3 Online Services

4.3.1 General

The folding and inserting system can be equipped with Online Services. This option enables the machine to connect to a central server. During the connection data is downloaded to and uploaded from the machine. The machine always initiates the connection, it is not possible to make a connection from outside to the machine. Ask your supplier if this option is available.

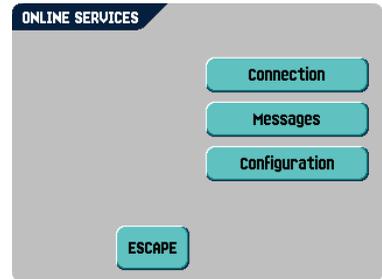
4.3.2 Start-Up Online Services

To start-up Online Services:

1. Select **supervisor menu** from the "main menu (2)".
2. Enter the PIN-code **2546** to access the supervisor menu.
3. Press **online services** .

The "Online Services" menu shows the following functions:

- **connection** : opens the "connection" menu to create a connection to a central server and to view the connection history (see 4.3.3 "Connection" on page 48).
- **Messages** : opens the "messages" menu to view received messages (see 4.3.4 "Messages" on page 49).
- **configuration** : opens the "configuration" menus to change Online Services settings (see 4.3.5 "Configuration Menu" on page 50).



4.3.3 Connection

The machine makes a connection on fixed times. It is possible that you manually connect the machine to the server. To connect to the server:

1. Press **connection** in the "Online Services" menu.

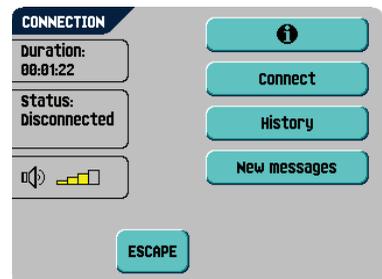
The display shows the "connection" menu.

2. Press **connect** to manually connect the machine to the OLS server.

You can view the status of the connection on the

screen. The text on the button changes to **disconnect** .

Press **disconnect** to terminate connection with the server.



The "connection" menu shows the following functions:

- **History**: opens the "history" menu to view the connection history (see "History" on page 49).
- **New messages**: this button appears when the machine received new messages and opens the "messages" menu (see 4.3.4 "Messages" on page 49).

History

The "history" menu shows previous connections of the machine to the server.

1. Press **▲** or **▼** to select a previous connection.
2. Press **ⓘ** to view details on selected previous connection.

Date	Time	Result
05-01-2005	13:01:00	Success
07-02-2005	09:44:00	Failure
16-03-2005	16:12:00	Success
02-04-2005	12:34:00	Failure
02-04-2005	12:40:00	Success
12-04-2005	11:33:00	Success
11-05-2005	13:21:00	Failure

4.3.4 Messages

After pressing **Messages** in the "Online Services" menu the display will show messages received from the server. A message has content like new software or a new job.

1. Press **▲** or **▼** to select a message.
2. Press **ⓘ** for more information over a selected message.

In case new software or a new job can be installed the **Continue** button appears.

To install new software or a new job:

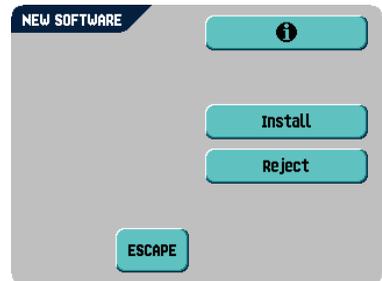
1. Press **Continue**.

The "new software" menu or the "new job" menu appears. Press **ⓘ** for more information on the software or the job.

2. Press **Install** to install the new software or the new job or press **Reject** to reject the new software or new job.

After pressing **Install** a confirmation menu opens:

- In case of new software, press **OK** to confirm installation or press **ESCAPE** to return to "installation" menu.



- In case of a new job press  or  to select a free job number (see 3.9 "Create a Job" on page 31).

Press  to confirm the selected job number or press  to return to message menu.

After conforming the installation of the new software or new job the "message" menu appears.

4.3.5 Configuration Menu

After pressing  in the "Online Services" menu the "configuration" menu opens. Use this menu to modify the OLS settings.

The menu consists of two screens containing the following functions:

- Dial tone detection on / off

This setting is required if no dial tone is heard during establishing a connection. The default value is on. This setting is relevant to some PABX telephone switch systems.

Press  to switch the dial tone detection on or off.

- Telephone number of server: contact your supplier for the telephone number of the OLS server.

To change the number:

- Press .
- Enter the correct number using the numeric keypad.

- Press  to confirm the new number.

- Prefix: use this function in case you need to dial a certain number or string to access an outside line.

- Press .
- Enter the correct prefix using the numeric keypad.

- Press  to confirm the new number.

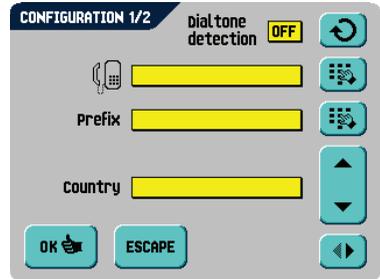
- Country: enter the country from where you are dialing.

Select the correct country from a list by pressing  or .

- Date and time: enter the current date and time.

- Press .
- Enter the correct date and time using the numeric keypad.

- Press  to confirm the new number.



- Volume of modem: set the modem volume.
 - a Press  or  to change the volume of the speaker.
Do not set the volume to zero as the sound of the modem is helpful during remote assistance.
 - b Press  to confirm modified settings.

4.4 MaxiFeeder™

4.4.1 Function

The maxiFeeder™ is a feeder that can be loaded with a high number of documents. This feeder is intended to be used for Business Reply Envelopes (BRE), but also 'standard' documents up to 356 mm (14") length can be processed with it.

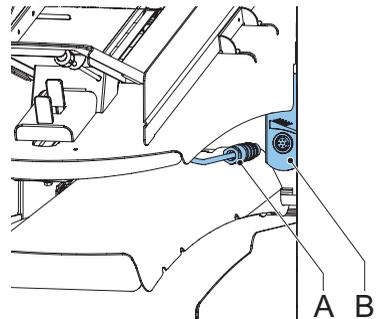
4.4.2 Preparations

The maxiFeeder™ should be installed at the position of feeder no. 1.

It can be placed into position in the same way as the other document feeders are fitted.

Proceed as follows:

1. Lift the paper feed rollers with the front edge of the maxiFeeder™.
2. Move the maxiFeeder™ forward until it hooks behind the frame axle.
3. Connect the connector **A** to the socket **B**.



The maxiFeeder™ is auto-detected by the system when it is switched on. This makes it easy to switch over from the standard document feed tray to the maxiFeeder™ and vice versa.

Note

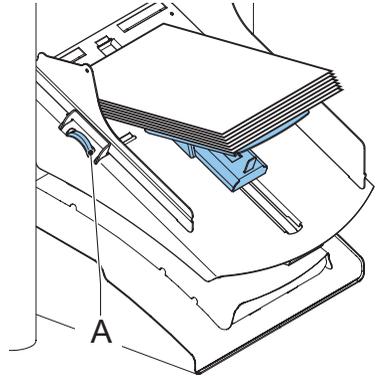
To allow easier hooking on of the maxiFeeder™ it is advised to put the feeding plate in the rear position (see 4.4.4 "Document Separation" on page 52).

To make use of a maxiFeeder™ it is not necessary to (re-)program the jobs.

4.4.3 Adjust Side Guides

Adjust the side guides:

1. Take a stack of documents/BREs and place them in the feed tray.
BREs with flap down and leading (top side pointing to machine).
2. Adjust the side guides by turning the thumb wheel **A** so the documents/BREs just fit and can move without resistance.
Too much play causes skewing.



4.4.4 Document Separation

When the maxiFeeder™ is used at an automatic separation feeder, the separation is set automatically.

The maxiFeeder™ can also be used on a feeder position with a manually adjusted separation.

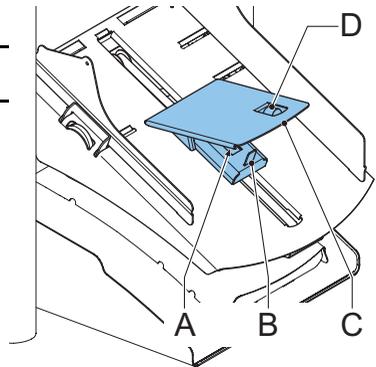
To adjust, proceed as follows:

1. Remove feeders 2 and 3.

Note

The lowest feeder is feeder 1.

2. Squeeze the two blue handles **A** and **B** and shift the feeding plate **C** as far as possible to the front.
 3. Push knob **D** forward until it clicks.
 4. Place a document/BRE on the feed tray and slide it in the machine till the leading edge is not visible anymore. Turn knob **D** counterclockwise if the separation is set to narrow.
 5. Push the document/BRE between the rollers.
 6. Turn knob **D** clockwise to get more resistance and counterclockwise if the separation is set to narrow.
- The separation is adjusted correctly when a slight resistance is felt on the document/BRE.
7. Pull knob **D** back when ready.
 8. Remount feeders 2 and 3.



4.4.5 Feeding Documents

To feed documents:

1. Squeeze the two blue handles **A** and **B**.

2. Shift the feeding plate **C** to the rear position.
3. Loosen the stack of documents and place them in the feeder. BREs with flap down and leading (top side pointing to machine).

The feeding plate assembly will be shifted up automatically (when the system starts processing) until documents/BREs are underneath the rubber paper pullers.

Note

When filling the maxiFeeder™, make sure that the document/BREs are positioned parallel in relation to the feed plate to ensure correct feeding.

Note

*When longer documents are used, plate **C** can be extended by pulling out the adjustable feed plate extension.*

4.5 insert'n Frank™ (insert'n Mail)

If this machine is connected to a mailing/franking machine, insert'n Frank™ allows you to:

- Switch automatic mailing/franking on or off
- Remotely select a mailing/franking job
- Set the printing/franking value (option)
- Automatically set the printing/franking value using the inserter data

For programming this option refer to 3.9.8 "Mailing/Franking Settings (Option)" on page 39.

5. MAINTENANCE



Disconnect the mains power supply before performing any maintenance.



The user must not attempt to service the appliance beyond that described in this operator manual. All other servicing must be carried out by qualified service personnel only.

Please contact your authorized distributor.

5.1 Operator Maintenance

Maintenance frequency	Maintenance
Daily	<ul style="list-style-type: none">• Check the system functions.• Keep the system in proper condition by removing dust, paper remains, etc.• When dirty, clean the sealing table and rubber rollers with a slightly wetted cloth, soaked in warm water.
Weekly	<ul style="list-style-type: none">• When dirty or saturated, clean the brushes of the envelope sealing. The machine is delivered with an extra set of brushes. To always have one clean set available, it is recommended to soak one set in water and use the other set. Remove the brushes one by one by pulling them down from the brush holder. Replace the brushes and make sure that the studs on the brushes are fitted in the corresponding holes in the brush holder.• Check moistening cloth and replace if necessary. When dirty or saturated, clean the moistening cloth and the reservoir.• Clean feed and insert rollers as instructed by the Service Engineer.
When necessary	<ul style="list-style-type: none">• When the display warns about dusty sensors, the sensors on the envelope or document path must be cleaned using the bellows that is located behind the side cover. Place the bellows in the upper air plug and firmly squeeze a few times to blow the dust from the document path sensor. Repeat this procedure for the lower air plug to clean the envelope path sensor. Calibrate the photocells (see "Test" on page 18).

6. FAULT FINDING

6.1 Error Messages

When an error occurs the display shows a screen showing the following information:

- An indication of the area in which the error occurred
- An error description
- A suggested solution behind the pointing hand

Press  to view more information about the occurred error and about the possible actions to avoid the error from re-occurring.

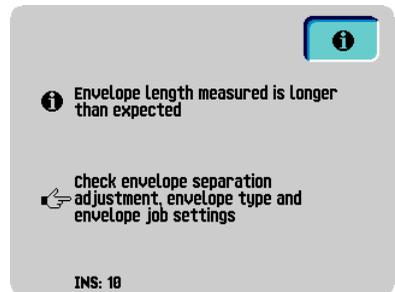
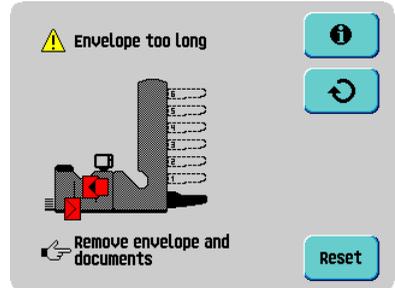
After solving the problem, press  to reset the error (the error screen will disappear).

Special Errors

- Reading errors (when Optical Mark Recognition is enabled)
The document set is diverted. The operator must remove the document set and has to complete the set manually!
- Technical errors
The display shows a message. The error cannot be solved by operating personnel and assistance of the service support is needed.

Warning Screen

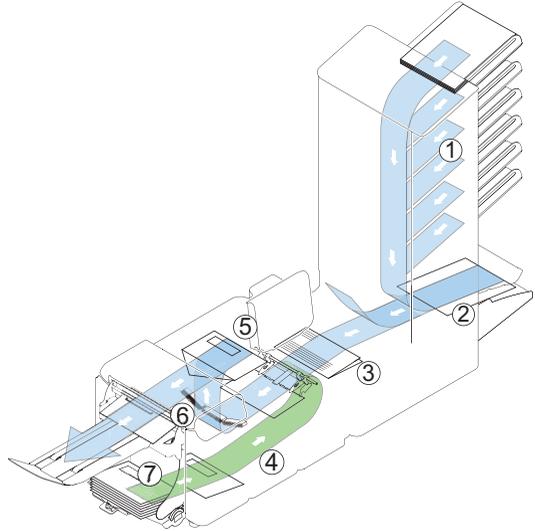
When a cover is opened, the display shows a warning screen with the message "Cover open and a suggested solution "Close cover".



6.2 Clearing Stoppages

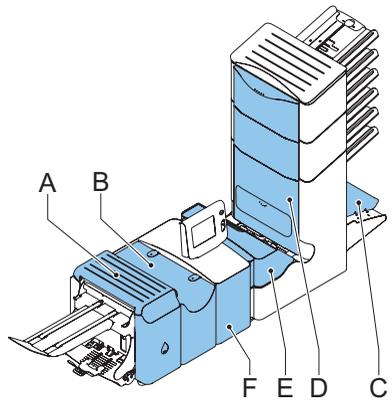
Stoppages can occur in the following areas:

1. FlexFeed® area
2. Collating area
3. PowerFold® area
4. Lower envelope track
5. Sealing and inserting area
6. Exit area
7. Envelope hopper



For clearing of stoppages, six system sections can be opened:

- A loc cover, to reach the exit area
- B inserter cover, to reach the sealing and inserter area
- C collator arm, to reach the collating area
- D feeder cover, to reach the feeding area
- E powerFold® cover, to reach the folding area
- F side cover, to reach the lower envelope track



6.2.1 Exit, Sealing and Inserting Area

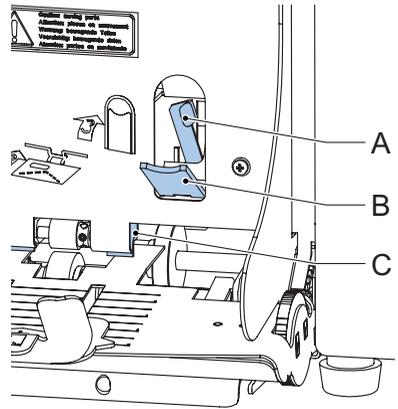
When a stoppage occurs in this area, remove the material as follows:

1. Open the side cover **F**.
2. Lift the locking lever of the loc and pull the loc up into the vertical position.
3. Lift the inserter cover.
4. Remove all material.
5. Lower the loc and the inserter cover.
6. Close the side cover.
7. Press  to reset the error and restart the job.

6.2.2 Envelope Hopper

When an envelope gets stuck in this area, remove the envelope as follows:

1. Pull down small lever **B**.
Pins **C** will come down.
2. Push lever **A** to the right and hold it.
Pins **C** will go up.
3. Remove the stuck envelope.
4. Release lever **A**.
5. Return lever **B**.
6. Press  to reset the error and restart the job.

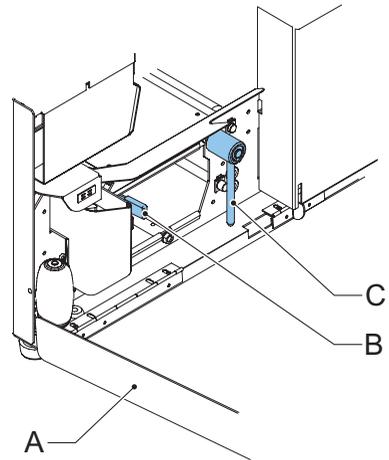


6.2.3 Lower Envelope Track

When a stoppage occurs in the lower envelope track, remove the envelopes as follows:

1. Open the side cover **A**.
2. Squeeze handles **B** to unlock the rollers.
3. Remove the envelopes.
4. Release handles **B**.
5. Close the side cover.
6. Press  to reset the error and restart the job.

If needed, envelopes and documents can be transported manually by means of handle **C**. To transport envelopes manually to the insert table or to the lower envelope track, joggle the handle. To transport a document manually push handle **C** inwards and then joggle.

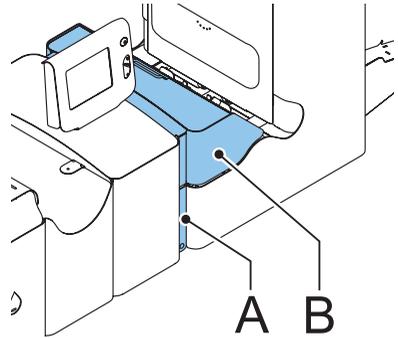


6.2.4 PowerFold®

When a stoppage occurs in the powerFold®, remove the documents from the powerFold® as follows:

1. Push the lower end of the locking handle **A** to open the powerFold® cover **B**.
2. Remove the documents from the powerFold®.
3. Close the powerFold® cover.

4. Press  to reset the error and restart the job.



6.2.5 FlexFeed®

When a stoppage occurs in the flexFeed®, remove the documents from the flexFeed® as follows:

1. Pull the vertical transport hand grip upward to open the vertical transport cover.
2. Remove the documents.
3. Close the vertical transport cover.

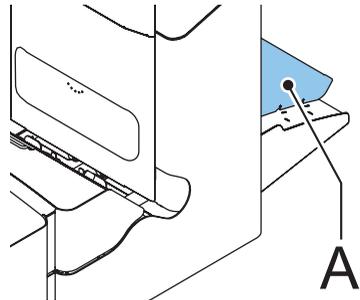
4. Press  to reset the error and restart the job.

6.2.6 Collating Area

When a stoppage occurs in the collating area, remove the documents from the collating area as follows:

1. Lift and hold the collator arm **A**.
2. Remove the documents.
3. Lower the collator arm.

4. Press  to reset the error and restart the job.



6.3 Operator Troubleshooting

To resolve problems:

1. Write down the error.
2. Try to solve the problem by consulting the troubleshooting table.
3. Switch the inserter off and on again, to verify system operation.
4. When the error still occurs contact your service organization.

Note

When contacting the service organization, you will also be asked for the last error message and the software version of the installed software. To determine the software version, refer to 2.4.6 "Supervisor Menu" on page 14.

Symptom	Possible cause	Remedy	Reference
The system cannot be started after switching on.	System not connected to mains.	Connect the system to the mains.	-
	Fuse is blown.	Replace fuse below power switch.	-
	A cover is opened.	Close the covers.	-
System stops with envelope at insert position (flap not open).	Envelopes stacked reversed in the feed tray.	Check envelope feed adjustments. Place envelopes correctly in feed tray.	"Loading Envelopes" on page 25
	Envelope flap sticks.	Store envelopes according to specifications.	"Envelope Settings" on page 32
	Wrong envelope type used (not according specifications or job settings).	Change envelopes according to specifications.	"Envelope Settings" on page 32
Envelopes are double fed.	Envelope separation not correctly set.	Adjust envelope separation.	"Envelope Separation" on page 25
	Envelopes not placed properly in the feed tray.	Check and replace if needed.	"Loading Envelopes" on page 25
Envelope stop skewed.	Side guides of the envelope feed tray are set too wide.	Check side guides and adjust if needed.	"Loading Envelopes" on page 25
Envelopes are fed irregularly.	Feed tray almost empty.	Refill feed tray.	"Loading Envelopes" on page 25
	Separation set too narrow.	Adjust envelope separation.	"Envelope Separation" on page 25
	Side guides set too narrow.	Check side guides and adjust if needed.	"Loading Envelopes" on page 25
	Envelope support not positioned correctly.	Reposition the envelope support.	"Loading Envelopes" on page 25

Symptom	Possible cause	Remedy	Reference
Flap is wrinkled and sometimes not opened.	Envelope not within specifications.	Check specifications and change envelopes if needed.	"Document Specifications" on page 62
	Flap sticks.	Store envelopes according to specifications.	"Document Specifications" on page 62
	Flap curled.	Envelopes stored or manufactured improperly.	"Document Specifications" on page 62
	Separation set too narrow.	Adjust envelope separation.	"Envelope Separation" on page 25
Fingers are placed on top of the envelope.	Fingers adjusted too deep into the envelope.	Check fingers position, adjust if needed.	"Insert Position" on page 28
	Envelope stops too early.	Check envelope stop position, adjust if needed.	"Insert Position" on page 28
System stops while inserting (stoppage at the inserting point).	Fingers not correctly adjusted.	Check fingers position, adjust if needed.	"Insert Position" on page 28
	Inserted document too long for used envelope.	Check fold settings.	"Fold Settings" on page 34
	Envelope throat incorrect.	Check envelope specifications.	"Envelope Settings" on page 32
	Envelope glued inside.	Eliminate faulty envelopes.	-
	Window not glued properly.	Eliminate faulty envelopes.	-

Symptom	Possible cause	Remedy	Reference
Flap not sufficiently moistened.	Water level low.	Check water level, refill if needed.	"Sealing Envelopes" on page 26
	Brushes dry.	Check brushes, replace if needed by the extra soaked set.	"Sealing Envelopes" on page 26
	Brushes dirty.	Check brushes, clean if needed.	"Operator Maintenance" on page 54
	Moistening felt dry.	Check the moistening felt, refill water tray if needed.	"Sealing Envelopes" on page 26
	Moistening felt dirty.	Check the moistening felt, clean if needed.	"Operator Maintenance" on page 54
	Moistening brushes inactive.	Activate the moistening brushes.	"Sealing Envelopes" on page 26
	Brushes worn out.	Replace brushes.	"Operator Maintenance" on page 54
	Moistening felt worn out.	Replace moistening felt.	"Operator Maintenance" on page 54
Envelope not always ejected from sealer.	Inserted document too big.	Check fold settings, adjust if needed.	"Fold Settings" on page 34
	Document not inserted deep enough.	Check adjustment of envelope stop position and fingers.	"Insert Position" on page 28
	Sealing area dirty.	Clean sealing area.	"Operator Maintenance" on page 54
No document fed.	Feeder empty.	Refill feeder.	"Filling the Document Feed Tray" on page 24
	Separation set too wide / too tight.	Adjust the separation.	"Document Separation" on page 23
	Side guides set too narrow.	Adjust the side guides.	"Side Guides" on page 23
Skewed documents fed.	Side guides set too wide.	Adjust side guides.	"Side Guides" on page 23
Double documents fed.	Separation set too wide.	Adjust the separation.	"Document Separation" on page 23
Document stoppage at collating area.	Stopper position set incorrect.	Adjust stopper position.	"Adjustment of the Document Stoppers" on page 24

7. SPECIFICATIONS

7.1 Technical Specifications

Model	DS-80
Type	inserter system for medium office use.
Theoretical max. speed	4000 inserts per hour, depending on application.
Power consumption	100V AC/50Hz/3.0 Amps. 115V AC/50/60Hz/3.0 Amps. 230V AC/50Hz/1.5 Amps.
Fuse	100/115 Vac: T 5.0 A, 125 V Time lag, 5.0 Amps. rated current, 125 V. 230 Vac: T 2.5 A H, 250 V Time lag, 2.5 Amps. rated current, high breaking capacity, 250 V
Approvals	EMC Certificate conform EMC-Directive. FCC Certificate conform 47CFR, part 15. CB Certificate conform IEC 60950-1. UL Listed I.T.E. (Information Technology Equipment), conform UL-IEC 60950-1, file: E153801. Conform NEN-EN-IEC 60950-1 and derivatives.

7.2 Configuration Dimensions

	2 stations	4 stations	6 stations
Height	570 mm (22.4 inch)	745 mm (29.3 inch)	920 mm (36.2 inch)
Width	420 mm (16.5 inch)		
Length	1340 mm (52.8 inch) (with receiving tray 1590 mm/ 62.6 inch, with side exit 1440 mm/56.7 inch, with stacker 1840 mm/72.4 inch)		
Weight	88.5 kg (195 lbs)	96.2 kg (212 lbs)	110 kg (242 lbs)

7.3 Other Specifications

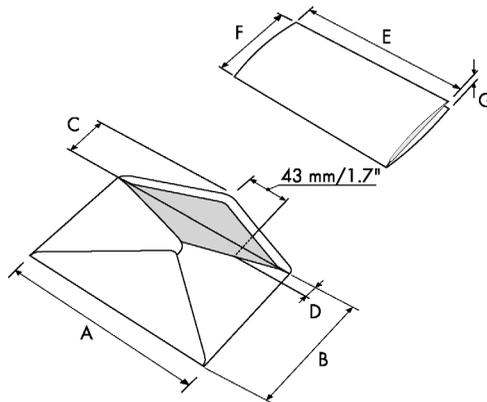
Noise level	<66 dBA (according to ISO 11202)
Operating temperature	10°C - 40°C (50°F-104°F)
Humidity	30%-80%

7.4 Document Specifications

Paper quality	minimum 60 g/m ² (15 lb bond) maximum 250 g/m ² (62.5 lb bond), when folded max. 170 g/ m ² (42.5 lb bond) Booklets up to approximately 2 mm (0.08 inch) thickness, depending on stiffness
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Paper size	Minimum width: 130 mm (5.1") Maximum width: 242 mm (9.5"), when folded 230 mm (9.1") Minimum length: 90 mm (3.5") Maximum length: 356 mm (14")
Folding capacity	Single fold - 10 sheets (max. 80 g/m ²) Letter fold / Z-fold - 8 sheets (max. 80 g/m ²) Double parallel fold - 4 sheets (max. 80 g/m ²)
Envelope sizes	Standard BRE (Business Reply Envelopes)
Envelope quality	minimum 80 g/m ² (20 lb bond) maximum 120 g/m ² (30 lb bond)

7.5 Envelope and Insert Specifications



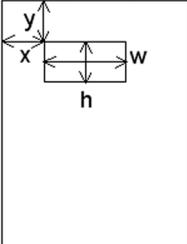
		A	B	C	D	E	F	G
Minimum size	mm	160	90	32	10	-	84	60 g/m ²
	inches	6.3	3.5	1.25	0.4	-	3.3	60 g/m ²
Maximum size*	mm	248	162	B-32	75	A-12**	B-6	2.5*
	inches	9.7	6.38	B-1.25	2.9	A-0.47**	B-0.2	0.1
* Booklets up to approximately 2 mm (0.08 inch) thickness, depending on stiffness								
** When insert is more than 1 mm (0.04 inch): A-15 mm / A-0.6 inch								

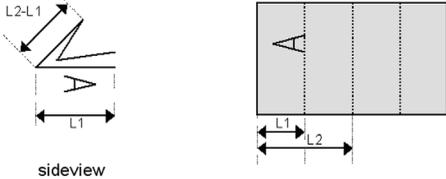
Remarks:

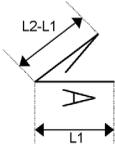
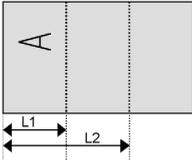
- The specification of the paper handling equipment is often wider than that of the envelopes and documents handled. The condition of material handled will limit the specified environmental conditions.

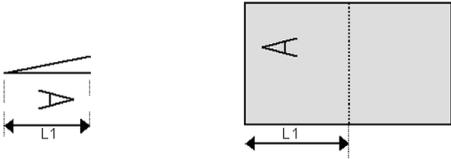
- We recommend that materials to be handled are stored at a temperature of 20°C (68°F) with a relative humidity factor of 50%. If difference in temperature occurs between store room and mailing area, the material has to be stored near the machine at least 24 hours before use.
- Self-copying paper may cause rubber parts to wear quicker. The rubber used in this machine has the best resistance to Wiggins Teape material.

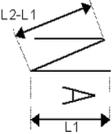
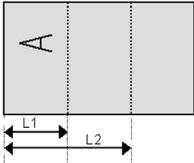
8. TERMINOLOGY

Term	Description
Address carrier	The address carrier is the document that carries the address of the person for who the mail-set is meant. The address carrier can consist of one or more sheets, from which at least the first sheet must contain the address. The address must remain visible while enclosures are added and the document-set is folded. The fold type and selected envelope must ensure that the address is visible behind the window in the envelope. For personalized mailings there is always an address carrier present as long as envelope printing is not supported. Normally there is one address carrier.
Address position	 <p>Position of the address on the address carrier, measured from the upper left corner. The address position consists of a horizontal x coordinate, a vertical y coordinate, a horizontal width w and a vertical height h.</p>
Business Reply Envelope (BRE)	Envelope included in outgoing mail-sets for addressee response purposes.
C-fold	See "Letter fold" on page 67.
Clear	The function of an inserting system in which all mail-sets in progress are finished and the document path is left empty.
Conveyor stacker	Stacks up filled envelopes from the system.
Daily Mail	Capability of an inserting system to manually insert mail-sets one by one into the system, which are then inserted into an envelope. Optionally, depending on settings, additional enclosures can be added and the mail-set can be folded. This function is intended for small amounts of mail that each can have a different build-up.
Document	A document is one of the components of a mail-set. A document can consist of one or more sheets. Documents can be divided into address carriers and enclosures. For personalized mailings there is always one address carrier and an optional number of enclosures.
Document-set	The document-set is the physical collection of address carrier and enclosure(s) that is under production in the Inserting System. The document-set is completed during production and is to be inserted in the envelope. The number of enclosures can range from 0 to the limit opposed by the number of available Feeders. Once the document set has been inserted into an envelope it is called mail set.

Term	Description
Double Feed Control (DFC)	<p>Double Feed Control is the sensor that measures the thickness of a sheet to check if the inserting system does not accidentally take more sheets than intended. DFC sensors exist on Feeders (double sheet detection). Currently DFCs on Neopost inserting systems perform relative measurements, which means that they need a cycle to 'learn' the thickness of a sheet.</p> <p>Also the length of the document is measured so partly overlapping sheets will be detected.</p>
Double parallel fold	<p>The double parallel fold is a type of fold where the document is first folded halfway and the resulting folded set is again folded halfway. This fold is illustrated in the picture below. The position of both folds is adjustable.</p> 
Envelope	<p>The envelope is the packaging of a mail set. Window envelopes are envelopes that have a transparent section through which the address on the address carrier can be read. Besides the normal top-closing window envelopes there are also bottom-closing envelopes.</p>
Extended powerFold®	<p>Option, makes bottom address applications and short folds possible.</p>
Face down	<p>Situation in which the front of a sheet is facing downwards when placed in a document feeder.</p>
Face down leading	<p>Situation in which the front of a sheet is facing downwards and the top of the sheet is closest to the separation unit in a document feeder.</p>
Face down trailing	<p>Situation in which the front of a sheet is facing downwards and the bottom of the sheet is closest to the separation unit in a document feeder.</p>
Face up	<p>Situation in which the front of a sheet is facing upwards when placed in a document feeder.</p>
Face up leading	<p>Situation in which the front of a sheet is facing upwards and the top of the sheet is closest to the separation unit in a document feeder.</p>
Face up trailing	<p>Situation in which the front of a sheet is facing upwards and the bottom of the sheet is closest to the separation unit in a document feeder.</p>
Feeder	<p>A Feeder is a Module for the input of documents to the inserting system. The Feeder separates documents sheet by sheet from the stack of documents in the feed tray.</p>

Term	Description
Feeder linking	The ability to load two feeders with the same document type where the Inserting System automatically switches to a second feeder when the first feeder is empty and vice versa. In the mean time the first feeder can be refilled, so the inserting system can keep running without having to stop for refilling the feeders.
Feed tray	Part of the feeder that contains the stack of documents.
Flexcode OMR	An OMR code for which the meaning of the OMR marks can be programmed in a dedicated way for a specific customer. This is normally used to support the OMR codes from other suppliers.
FlexFeed®	The flexFeed® is the feeding part of the system.
Insert	<ul style="list-style-type: none"> • An insert is the action of inserting a document-set into an envelope. • For native English speaking customers an insert is also a short, not to be folded document, usually an enclosure.
Inserter	An Inserter is the Module where the document-set is inserted into the envelope, the envelope is closed and if necessary sealed.
Inserting system	The system of all the Modules that cooperate to perform the inserting function (accumulate document-set, fold and insert) and have a single point of control.
Insert'n Frank™ (mailing machine)	Interface for the Neopost franking machine.
IntelliDeck®	To avoid stoppages the IntelliDeck® diverts duplicate or faulty documents before folding them while the system is still running.
Job	<p>A job is an actually produced collection of mail-sets based on a certain Job Definition at a certain point in time for a specific purpose. It consists of:</p> <ul style="list-style-type: none"> • The Job definition used for the production • Information about the batch size
Job counter	The counter that registers the number of mail-sets that is produced as part of a specific job.
Letter fold	<p>Fold type in which a document-set is folded twice in which the folded flaps are on top of each other. This fold is illustrated in the picture below. The position of both folds is adjustable.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">sideview Synonym: C-fold.</p>
Linking	See Feeder Linking.

Term	Description
Load'n Go®	The feature of an Inserting System to automatically determine its Job settings by measuring the sizes of documents and envelope. From all Feeders that are loaded one sheet will be taken. Based on the maximum document length (which is also the length of the document-set) and the length of the envelope the fold type is determined.
Load'n Go® job	A job that is created with the load'n Go® functionality.
MaxiFeeder™	Feeder with high capacity feed tray (e.g. 2000 sheets A4 80gr).
Multifeed	The feature of an Inserting System in which more than one sheet is taken from a Feeder.
OMR	Optical Mark Recognition
OMR code definition	Standard 1-track OMR code definition. Specifies the amount of reading marks used and the functionality linked to each of them (how each should be interpreted).
Operator	The person operating an Inserting System.
Optical Mark Recognition (OMR)	Optical Mark Recognition is intended for reading and interpreting printed codes. These codes are one or more black marks which are read from a document. These marks give information to the Inserting system about how to build-up and handle a set.
PowerFold®	The powerFold® can fold up tot 10 pages.
Reading error	Condition in which the system could not reliably read or interpret the OMR reading marks from a sheet.
Reading marks	Marks added to documents containing finishing instructions that can be identified by an OMR head and interpreted according to the used OMR code definition.
Remote diagnostics	The feature that makes it is possible to analyze a problem on an Inserting System from a remote location.
Service engineer	Technical engineer whose task it is to resolve problems with systems in the field. Besides dealing with problems, service engineers are also responsible for preventive maintenance.
Single fold	<p>A single fold implies the document/set is folded once. The fold-position is adjustable. This fold is illustrated in the picture below:</p>  <p style="text-align: center;">sideview</p>
Stacker	Used as storage for filled envelopes.
Stop counter	Counter which sets the amount of envelopes to be filled. After filling this amount of envelopes the system will stop (even during a clear).
Supervisor	Person who is responsible for the technical state of the machine. Normally a supervisor has access to programming functions, which are restricted for standard users.

Term	Description
Test run	<p>A test run is intended to validate the settings of the Inserting System:</p> <ul style="list-style-type: none"> • Inspect and adjust the stop position of the envelope. • Check the fold settings for one set. • Check whether the address is correctly positioned behind the envelope window.
Thickness detection	Checks the thickness of the document set. If the thickness is less or more than the set value an error message is displayed.
Tray	Contains a stack of paper for a printer or inserter. This paper is supplied to the machine for further processing.
Vertical transport	The vertical transport section between feeders and collator.
Z-fold	<p>A Z-fold means that a document is folded twice in such a way that each folded flap is on a different side of the folded document, resulting in a Z-shape. This fold is illustrated in the picture below. The position of both folds is adjustable.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>sideview</p> </div> <div style="text-align: center;">  </div> </div> <p>Synonyms: zigzag fold</p>

EC DECLARATION OF CONFORMITY FOR ELECTRICAL PRODUCTS

(According to Annex III B of the Low Voltage Directive)

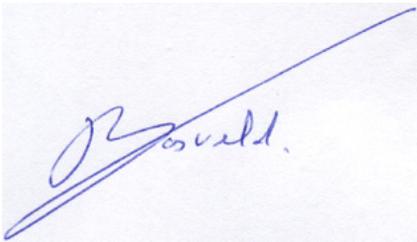
Manufacturer: Neopost Technologies BV
Address: De Tijen 3, 9201 BX Drachten
The Netherlands,

herewith declares that the:

DS-80,

- which this declaration refers to, is in accordance with:
the conditions of the Low Voltage Directive 73/23/EEC, modified by the directive 93/68/EEC,
- and the following Directive:
EMC Directive 89/336/EEC, modified by the directives 91/263/EEC, 92/31/EEC and 93/68/EEC.
- and is in conformity with the following harmonised standard(s) or other such specifications:
EN 60950-1.

The Netherlands, Drachten, 01-01-2007

A handwritten signature in blue ink, appearing to read 'F. Bosveld', is written over a horizontal line.

F. Bosveld
Managing Director

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Note: this equipment has been tested and found to comply with the limits for class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EC DECLARATION OF CONFORMITY FOR ELECTRICAL PRODUCTS

(According to Annex III B of the Low Voltage Directive)

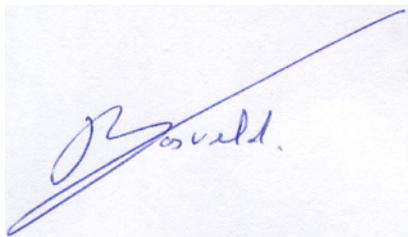
Manufacturer: Neopost Technologies BV
Address: De Tijen 3, 9201 BX Drachten
The Netherlands,

herewith declares that the:

MF-1,

- which this declaration refers to, is in accordance with:
the conditions of the Low Voltage Directive 73/23/EEC, modified by the directive 93/68/EEC,
- and the following Directive:
EMC Directive 89/336/EEC, modified by the directives 91/263/EEC, 92/31/EEC and 93/68/EEC.
- and is in conformity with the following harmonised standard(s) or other such specifications:
EN 60950-1.

The Netherlands, Drachten, 01-01-2007

A handwritten signature in blue ink, appearing to read 'F. Bosveld', is written over a light blue rectangular background.

F. Bosveld
Managing Director

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Note: this equipment has been tested and found to comply with the limits for class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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